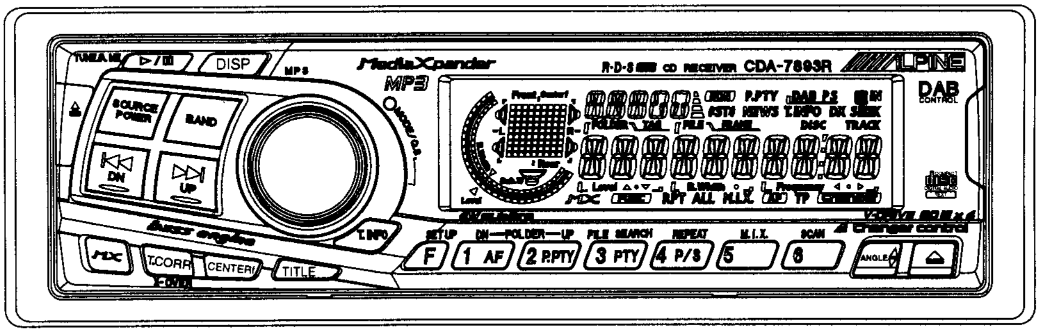
ALPINE

SERVICE MANUAL

FM/MW/LW/RDS CD Receiver

MP3 MX DAB CONTROL COMPACT disc DIGITAL AUDIO TEXT


TUNE/A.ME
DISP
SOURCE POWER
BAND
DN
UP
MediaXpander
MP3
R·D·S CD RECEIVER CDA-7893R
ALPINE
DAB CONTROL
T.INFO
SETUP
DN—FOLDER—UP
FILE SEARCH
REPEAT
M.I.X.
SCAN
F
1 AF
2 P.PTY
3 PTY
4 P/S
5
6
ANGLE
TITLE
CENTER/
T.CORR
MX

CDA-7893R

<Cautions for Safe Repair Work>

The following cautions will prevent accidents in the workplace and will ensure safe products.

●The symbols indicate caution is needed to prevent injuries and damage to property.
The symbols and their meanings follow.

⚠ **Warning**	If you ignore this symbol and handle the product incorrectly or unsafely, serious injury or death may result.
⚠ **Caution**	If you ignore this symbol and handle the product incorrectly or unsafely, injury or only material damage may result.

●The following symbols indicate two levels of cautions.

⚠	When you see this symbol, you have to be very careful.
❗	When you see this symbol, you have to follow the instructions there.

⚠ Warning

⚠	**Do not look squarely into the laser light coming from the pickup.** You may loose you sight.	❗	**Fuse Caution** Always use a designated fuse. Use of an incorrect fuse may result in a fire.

⚠ Caution

⚠	**Do not allow wiring to be caught in the screw/chassis.** If wiring is caught in the screw/chassis, it may cause a short circuit, resulting in a fire.	❗	**Battery Caution** Use the designated battery. Confirm the correct polarity and seat of the battery. An incorrect battery or an improperly connected or seated battery may result in a fire.
⚠	**High Temperature Caution** Touching the heat sink may cause severe burns.	❗	**Designated Parts Caution** Look up the part list and ensure that only designated parts are used to prevent problems or accidents.
⚠	**Reverse Power Supply Connections or Misconnections Caution** Reverse power supply connections or misconnections may cause ignition problems and smoke may result.	❗	**Wiring Caution** Ensure that the wiring is correct when rewiring to prevent problems with ignition/breakdown.
⚠	**Soldering Caution** Hot solder from solder splash may cause severe burns.	❗	**Wear Gloves** Wear gloves to prevent electrical shocks or injury from the end face of the metal.

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CD Deck Mechanism Assembly Parts List 65

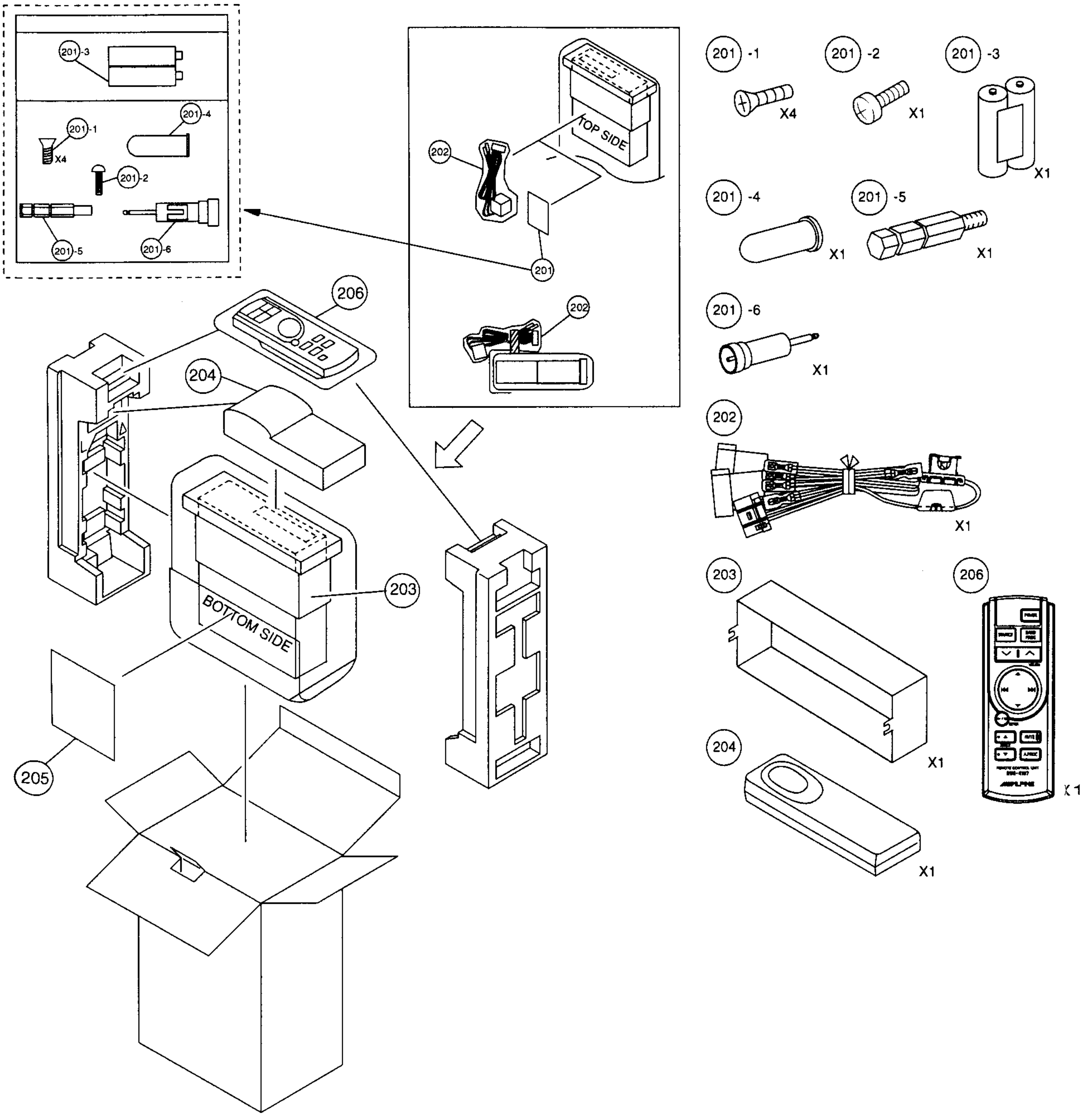
NOTE : Due to continuing product improvement, specifications and designs are subject to change without notice.

Packing Assembly Parts List

Symbol No.	Part No.	Description
201-1	03S72235F13	SCR,MCH M5X8 FLAT
201-2	03S68555F26	SCR,WAVE M1.7X4
201-3	60T55630W01	BAT,MGN R03(NB)UM-4
201-4	36A11113W01	CAP,RUBBER(A)
201-5	03A11112W01	BOLT,HEX.M5(A)
201-6	01T15394Y02	ANT,JASO-ISO

Symbol No.	Part No.	Description
202	01T35536Y01	ASSY,WIRE ISO 65R
203	15D00529K02	CASE,INNER
204	15D01798K01	CARRYING,CASE
205	68P01434K93	O/M AOEU AODN
206	01T45518Y01	ASSY,REMOCON RUE4187

Packing Method View


201-3
201-4
201-1
X4
201-2
201-5
201-6
202
TOP SIDE
201
202
206
204
203
BOTTOM SIDE
205
201 -1
X4
201 -2
X1
201 -3
X1
201 -4
X1
201 -5
X1
201 -6
X1
202
X1
203
X1
206
X1
204
X1

Specifications

<FM RADIO>

Intermediate Frequency	10.7±0.1MHz
Frequency Range	87.5~108MHz
Usable Sensitivity (Mono, 30dB S/N, at 98.1MHz)	20.2dBf
-3dB Limiting Sensitivity (at 98.1MHz)	21.2dBf
Residual Noise (Ref. 400Hz (NARROW), at 98.1MHz)	28±10dB
S/N Ratio (at 98.1MHz)	Stereo : 55dB Mono : 58dB
Image Rejection (at 106.1MHz)	40dB
IF Rejection (at 90.1MHz)	60dB
Distortion (Input 60dBμ, at 98.1MHz)	1%
Frequency Response (Ref. 400Hz, at 98.1MHz)	100Hz : 0±3dB 10kHz : -10±3dB
Stereo Separation (1kHz, at 98.1MHz)	20dB
PS Sensitivity (at 98.1MHz)	36.2dBf

<MW RADIO>

Intermediate Frequency	1st. : 10.7MHz 2nd. : 450kHz
Frequency Range	531~1,602kHz
Usable Sensitivity (20dB S/N, at 999kHz)	36dB
S/N Ratio (at 999kHz)	44dB
Image Rejection (at 1,404kHz)	50dB
IF Rejection (at 603kHz)	60dB
Distortion (at 999kHz)	1.5%
Frequency Response (Ref. 400Hz, at 999kHz)	100Hz : -3±4dB 2.5kHz : -5+3, -5dB

<LW RADIO>

Intermediate Frequency	1st. : 10.7MHz 2nd. : 450kHz
Frequency Range	153~281kHz
Usable Sensitivity (20dB S/N, at 216kHz)	42dB
S/N Ratio (at 216kHz)	44dB
Image Rejection (at 270kHz)	50dB
IF Rejection (at 162kHz)	60dB
Distortion (at 216kHz)	1.5%
Frequency Response (Ref. 400Hz, at 216kHz)	100Hz : -3±4dB 2.5kHz : -5+3, -5dB

<CD SECTION>

System	Optical (Compact Disc System)
Channel Balance (1kHz, CD : TCD-782, MP3 : SCD-4419 (FOLDER4-128kbps))	0±3dB
Distortion (1kHz, CD : TCD-782, MP3 : SCD-4419 (FOLDER4-128kbps))	0.3%
Frequency Response (Ref. 1kHz)	TCD-782 : 17Hz : 0±3dB
	127Hz : 0±2dB
	10.007kHz : 0±2dB
	19.997kHz : -2±4dB
	SCD-4419 (FOLDER4-128kbps) : 17Hz : 0±3dB
	127Hz : 0±2dB
	10.007kHz : 0±2dB
	19.997kHz : -2±4dB
S/N Ratio	TCD-782 : 80dB
	SCD-4419 (FOLDER4-128kbps) : 80dB
Separation	TCD-782 : 55dB
	SCD-4419 (FOLDER4-128kbps) : 55dB
De-Emphasis (Ref. 1kHz)	TCD-782 : 4kHz : -20±3dB
	16kHz : -20±3dB

<Pickup>

Wave Length	795nm
Laser Power	CLASS I

<GENERAL>

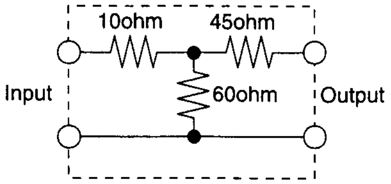
Power Supply	DC14.4V
Power Output (TCD-782 (0dB, 1kHz), T.H.D. 10%) /Impedance	25W/ch/4ohm
Pre Output (TCD-782 (0dB, 1kHz), T.H.D. 1%) /Impedance	FRONT, REAR : 2V±2.5dBV/ch/10k ohm
	SUB-W (SUB-W STEP +15) : 4V±2.5dBV/ch/10k ohm
Dimensions (W×H×D)	Chassis : 178×50×158mm
	Nose Closed : 188×58×25.8mm
	Nose Opened : 188×58×52.3mm
Weight	1.5kg

NOTE : Due to Continuing product improvement, specifications and designs are subject to change without notice.

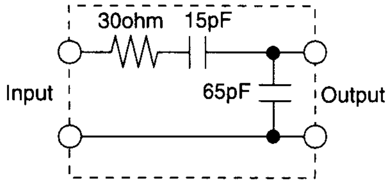
Adjustment Procedures

1. FM/AM SECTION

(1) Dummy Antenna Circuit


10ohm
45ohm
Input
60ohm
Output

For 50 ohm FM Signal Generator Figure 1


30ohm
15pF
Input
65pF
Output

For 50 ohm AM Signal Generator Figure 2

(2) Connections

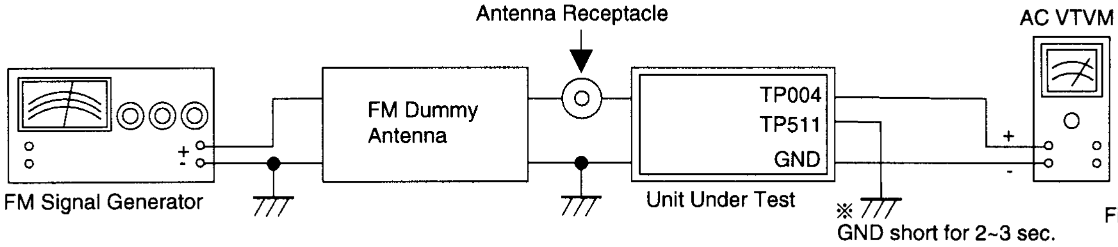

Antenna Receptacle
AC VTVM
FM Dummy Antenna
TP004
TP511
GND
+
-
FM Signal Generator
Unit Under Test
※
GND short for 2~3 sec.

Figure 3

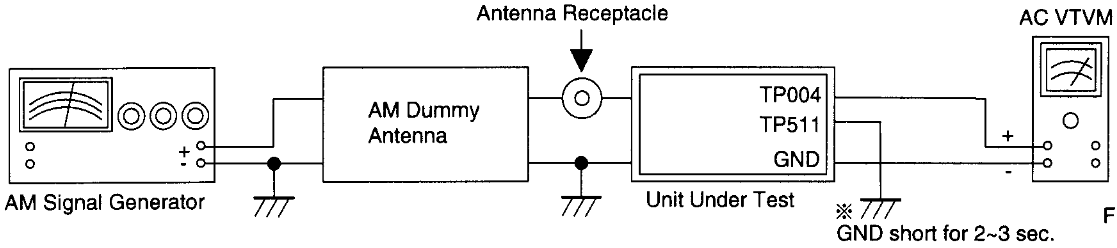

Antenna Receptacle
AC VTVM
AM Dummy Antenna
TP004
TP511
GND
+
-
AM Signal Generator
Unit Under Test
※
GND short for 2~3 sec.

Figure 4

(3) Control Settings

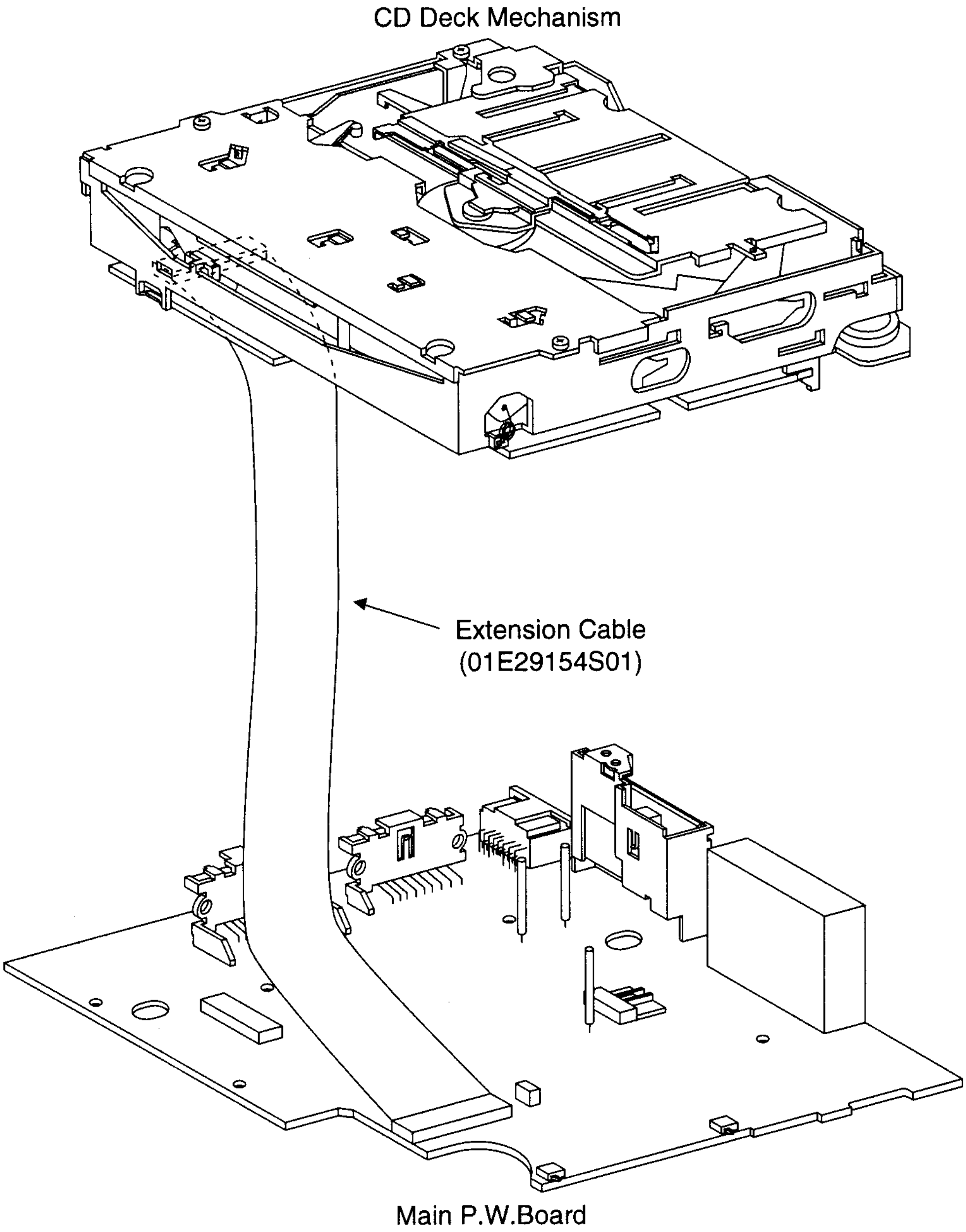
Power Switch	ON	Band Switch	FM/AM (MW/LW)
Fader Control	Center Position	MX	Non Effect
Balance Control	Center Position	T-CORR	Non Effect
Treble Control	Center Position	Others	OFF
Bass Control	Center Position		

(4) Adjustment Procedures

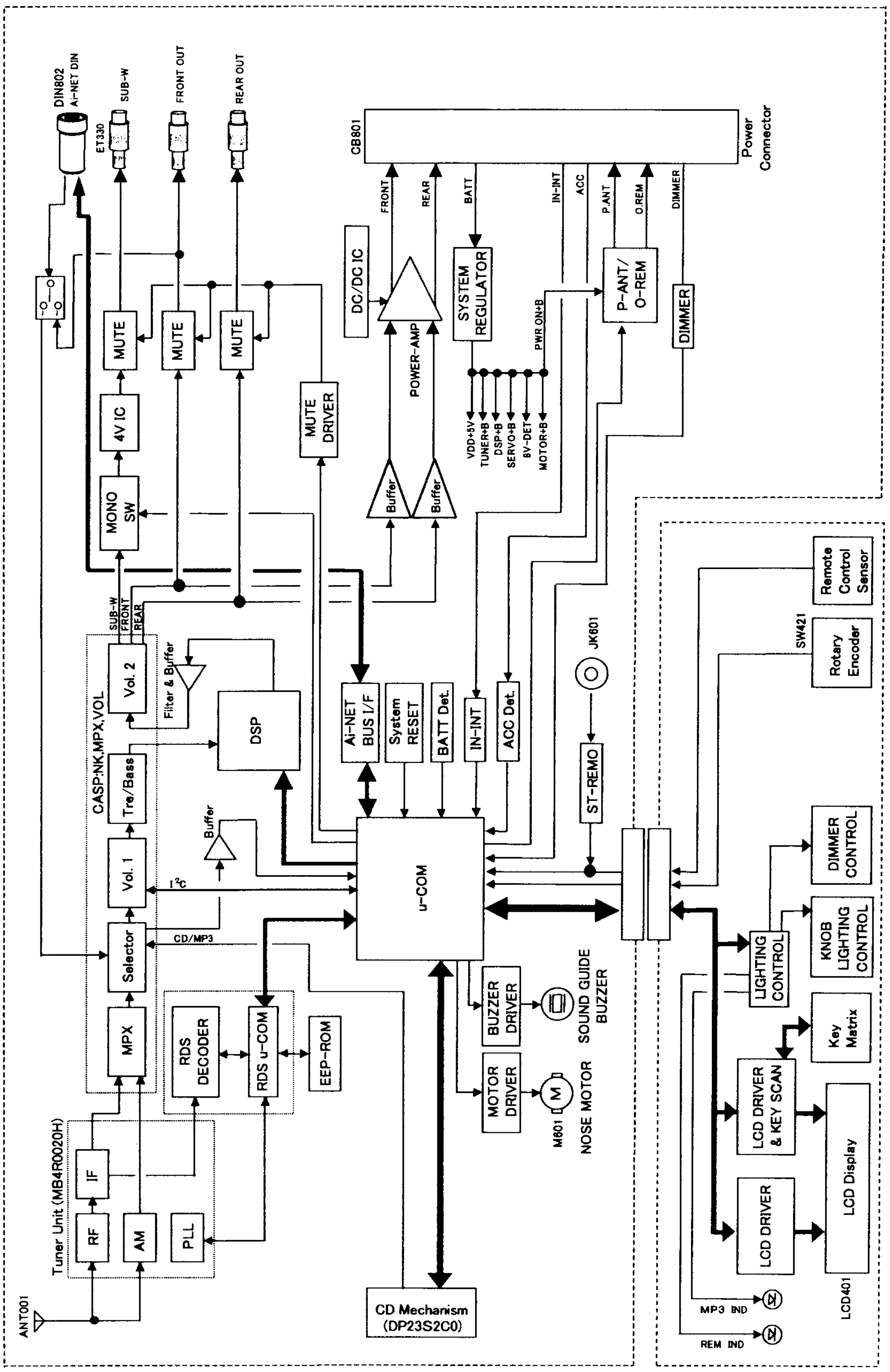
Step	Description	Connection	Signal Generator	Dial Control	Test Point / P.W.Board Coordinates	Adjustment
1	Signal Meter Auto Adjustment (FM)	Figure 3	87.5MHz, 26dBµ (Mod. OFF)	87.5MHz	TP004 (1-D) TP511 (2-B)	Auto Adjustment : After setting up of Signal Genarator, short GND and TP511 (Pull-Down) for 2~3 seconds. (SPEC) 1.5±0.1V
2	Signal Meter Auto Adjustment (MW)	Figure 4	999kHz, 34dBµ (Mod. OFF)	999kHz	TP004 (1-D) TP511 (2-B)	Auto Adjustment : After setting up of Signal Genarator, short GND and TP511 (Pull-Down) for 2~3 seconds. (SPEC) 1.0±0.1V
3	Signal Meter Auto Adjustment (LW)	Figure 4	216kHz, 34dBµ (Mod. OFF)	216kHz	TP004 (1-D) TP511 (2-B)	Auto Adjustment : After setting up of Signal Genarator, short GND and TP511 (Pull-Down) for 2~3 seconds. (SPEC) 1.0±0.1V

Extension Cable

- When repairing or measuring the voltage of this unit, connect with the Extension Cable as shown in below.


CD Deck Mechanism
Extension Cable
(01E29154S01)
Main P.W.Board

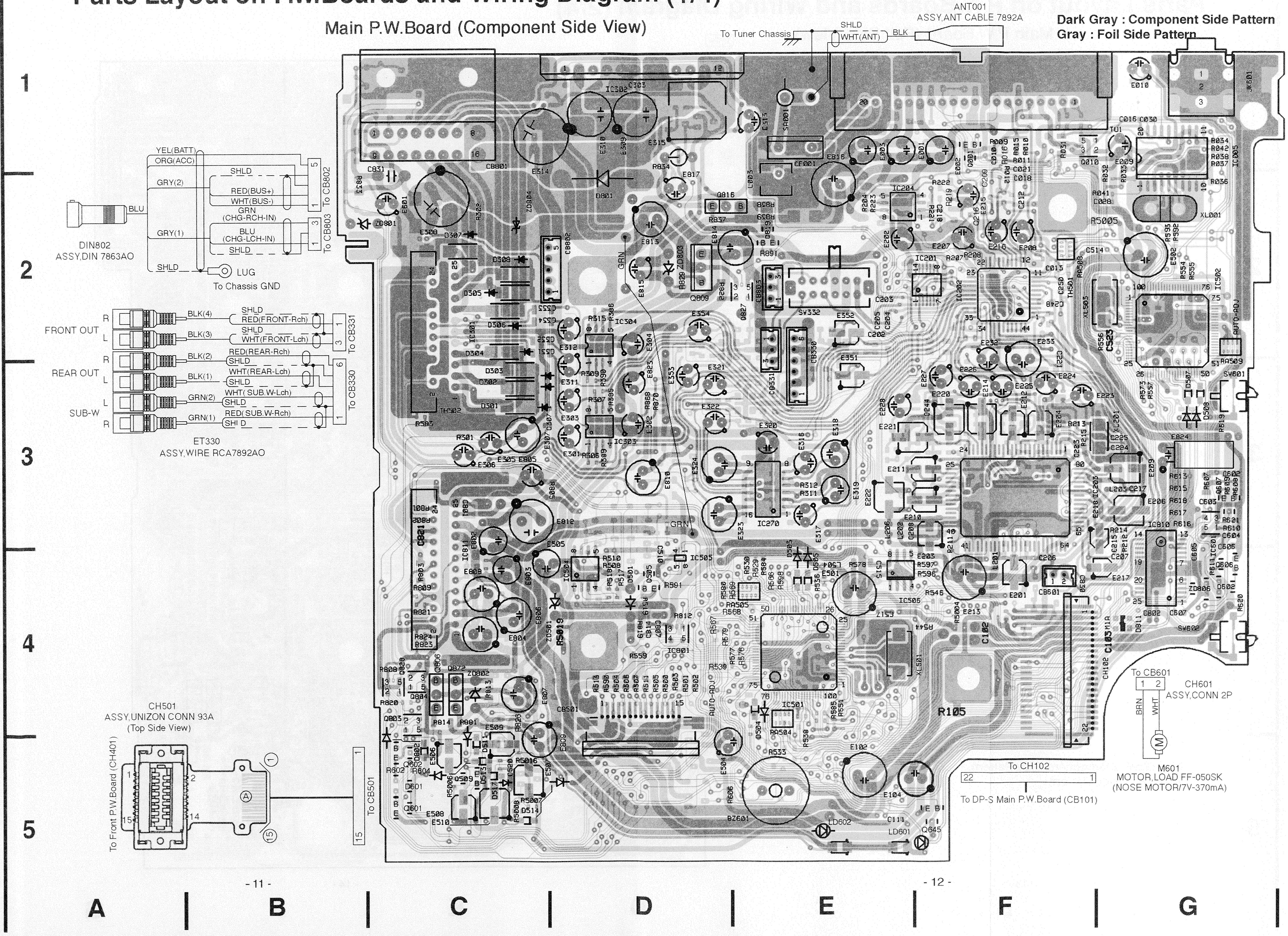
Block Diagram


DIN802
Ai-NET DIN
ET330
SUB-W
FRONT OUT
REAR OUT
CB801
Power Connector
FRONT
REAR
BATT
IN-INT
ACC
P.ANT
O.REM
DIMMER
DC/DC IC
POWER-AMP
SYSTEM REGULATOR
PWR ON+B
P-ANT/ O-REM
DIMMER
VDD+5V
TUNER+B
DSP+B
SERVO+B
8V-DET
MOTOR+B
MUTE
MUTE
MUTE
4V IC
MONO SW
MUTE DRIVER
Buffer
Buffer
SUB-W
FRONT
REAR
CASP:NK,MPX,VOL
Vol. 2
Filter & Buffer
DSP
Tre/Bass
Vol. 1
Buffer
I²C
Selector
CD/MP3
MPX
RDS DECODER
RDS u-COM
EEP-ROM
Tuner Unit (MB4R0020H)
IF
RF
AM
PLL
ANT001
Ai-NET BUS I/F
System RESET
BATT Det.
IN-INT
ACC Det.
JK601
ST-REMO
u-COM
BUZZER DRIVER
SOUND GUIDE BUZZER
MOTOR DRIVER
M801
NOSE MOTOR
CD Mechanism (DP23S2C0)
Remote Control Sensor
SW421
Rotary Encoder
DIMMER CONTROL
KNOB LIGHTING CONTROL
LIGHTING CONTROL
Key Matrix
LCD DRIVER & KEY SCAN
LCD Display
LCD DRIVER
LCD401
MP3 IND
REM IND

Parts Layout on P.W.Boards and Wiring Diagram (1/4)

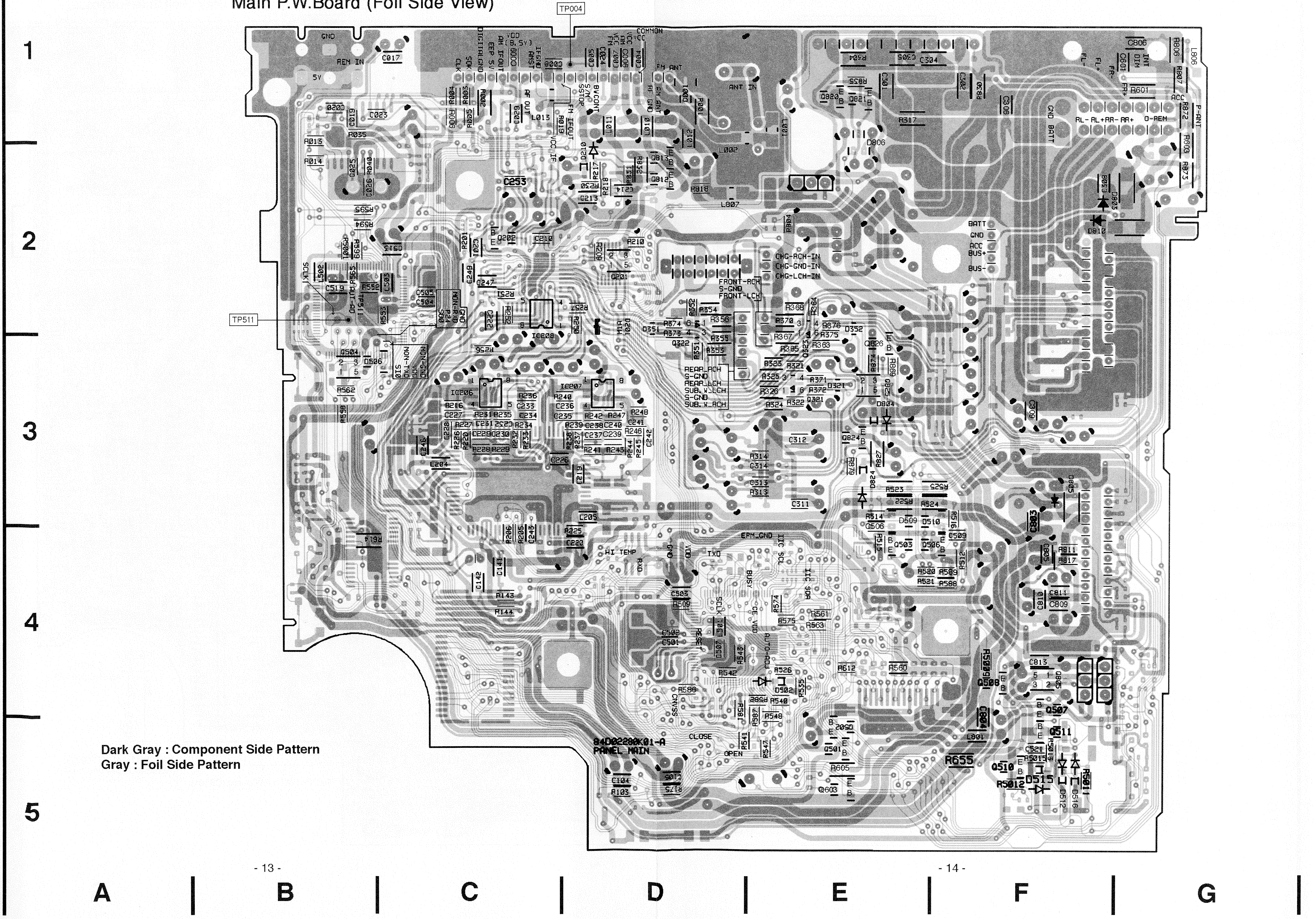
Main P.W.Board (Component Side View)

Dark Gray : Component Side Pattern
Gray : Foil Side Pattern


1
2
3
4
5
A
B
C
D
E
F
G
ANT001
ASSY,ANT CABLE 7892A
To Tuner Chassis
SHLD
WHT(ANT)
BLK
YEL(BATT)
ORG(ACC)
GRY(2)
SHLD
RED(BUS+)
WHT(BUS-)
GRN
(CHG-RCH-IN)
BLU
(CHG-LCH-IN)
SHLD
GRY(1)
BLU
To CB802
To CB803
DIN802
ASSY,DIN 7863AO
SHLD
LUG
To Chassis GND
FRONT OUT
REAR OUT
SUB-W
BLK(4)
BLK(3)
BLK(2)
BLK(1)
GRN(2)
GRN(1)
RED(FRONT-Rch)
WHT(FRONT-Lch)
RED(REAR-Rch)
WHT(REAR-Lch)
WHT(SUB.W-Lch)
RED(SUB.W-Rch)
To CB331
To CB330
ET330
ASSY,WIRE RCA7892AO
CH501
ASSY,UNIZON CONN 93A
(Top Side View)
To Front P.W.Board (CH4401)
To CB501
To CB601
CH601
ASSY,CONN 2P
BRN
WHT
M601
MOTOR,LOAD FF-050SK
(NOSE MOTOR/7V-370mA)
To CH102
To DP-S Main P.W.Board (CB101)
JK601
TU1
XL001
IC502
IC501
IC505
IC270
IC201
IC202
IC204
IC301
IC303
IC304
IC801
IC810
IC601
R105
C102
C103
BZ601
LD601
LD602
SW601
SW602
SA001
CF001
D801
ZD801
ZD804
CB801
CB802
CB803
CB330
CB331
CB501
CB601
CB602
AUTO-ADJ
GRN

Parts Layout on P.W.Boards and Wiring Diagram (2/4)

Main P.W.Board (Foil Side View)

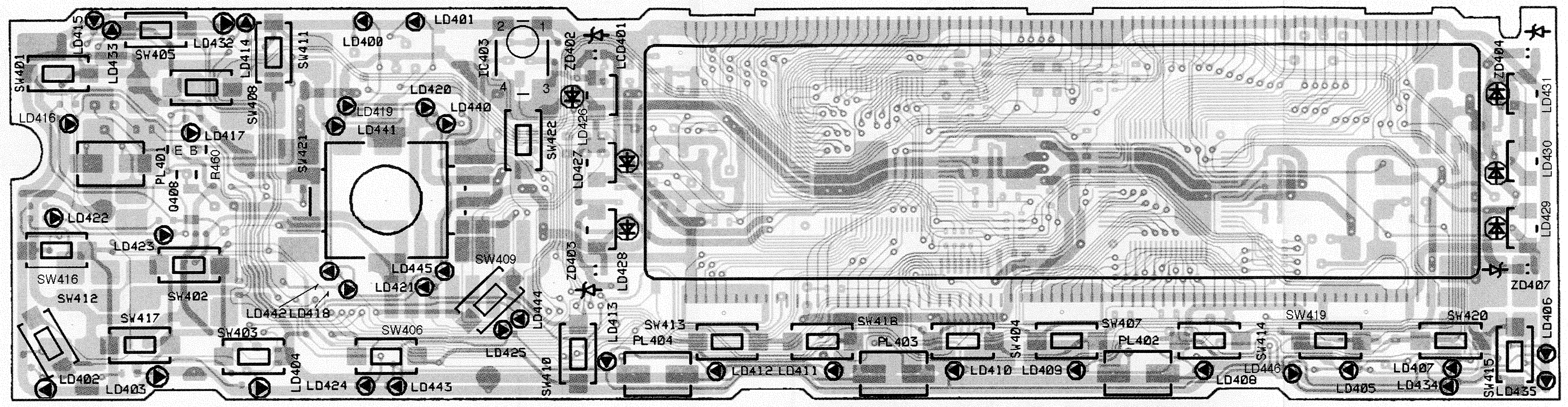

TP004
TP511
1
2
3
4
5
A
B
C
D
E
F
G
84D02280K01-A
PANEL MAIN

Dark Gray : Component Side Pattern
Gray : Foil Side Pattern

Parts Layout on P.W.Boards and Wiring Diagram (3/4)

1

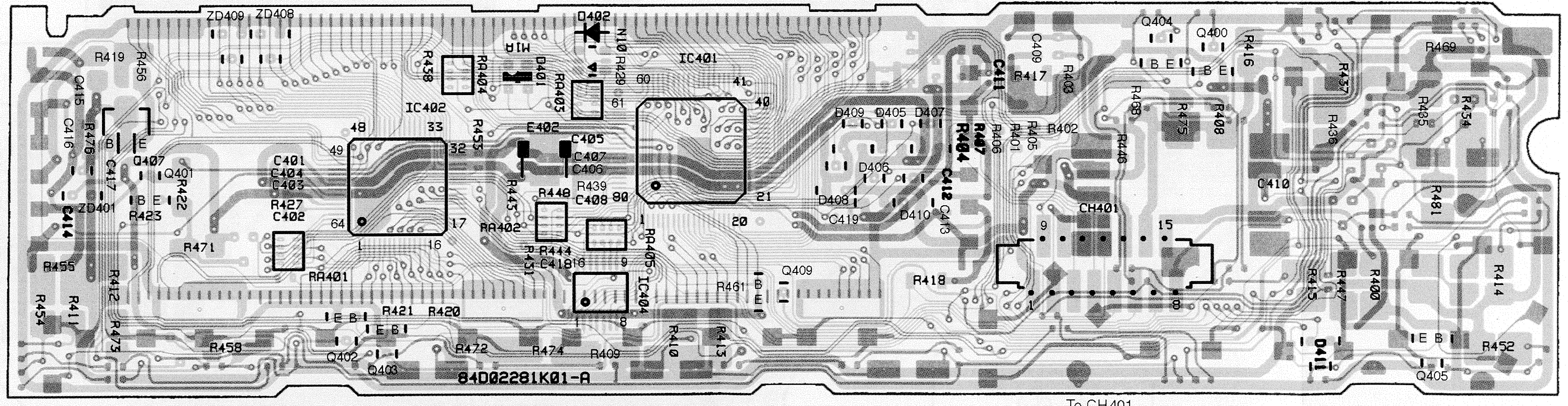
Front P.W.Board (Component Side View)


LD401
LD400
LD420
LD419
LD441
LD440
LD415
LD433
LD432
SW405
LD414
SW408
SW411
SW421
IC403
ZD402
LD401
SW422
LD426
LD427
LD428
ZD403
SW401
LD416
LD417
PL401
Q408
R460
LD422
LD423
SW416
SW412
SW402
SW417
SW403
LD442
LD418
LD445
LD421
SW409
SW406
LD444
LD425
LD413
SW410
LD402
LD403
LD404
LD424
LD443
SW413
PL404
LD412
LD411
SW418
PL403
SW404
LD410
LD409
SW407
PL402
SW414
LD446
LD408
SW419
LD405
LD407
LD434
SW420
SW415
LD435
LD406
ZD407
ZD404
LD431
LD430
LD429

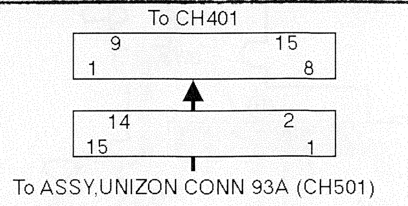
2

3

Front P.W.Board (Foil Side View)


ZD409
ZD408
D402
R419
R456
R438
RA404
IC402
D401
RA405
IC401
Q404
Q400
R416
R469
C415
C416
R476
Q407
Q401
R422
R423
ZD401
C414
C401
C404
C403
R427
C402
E402
C405
C407
C406
R439
C408
R440
R445
RA402
R444
C418
R431
IC404
RA403
D409
D405
D407
C411
R417
R403
R407
R404
R406
R401
R405
R402
D406
D408
C419
D410
C412
C413
R448
R446
R475
R408
R435
R437
R436
R485
R434
C410
R481
CH401
R471
R455
R412
R454
R411
R473
RA401
R421
R420
R458
Q402
Q403
R472
R474
R409
R410
R413
R461
Q409
R418
R415
R447
R400
R414
D411
R452
Q405
84D02281K01-A

4


To CH401
9
15
1
8
14
2
15
1
To ASSY,UNIZON CONN 93A (CH501)

5

Dark Gray : Component Side Pattern
Gray : Foil Side Pattern

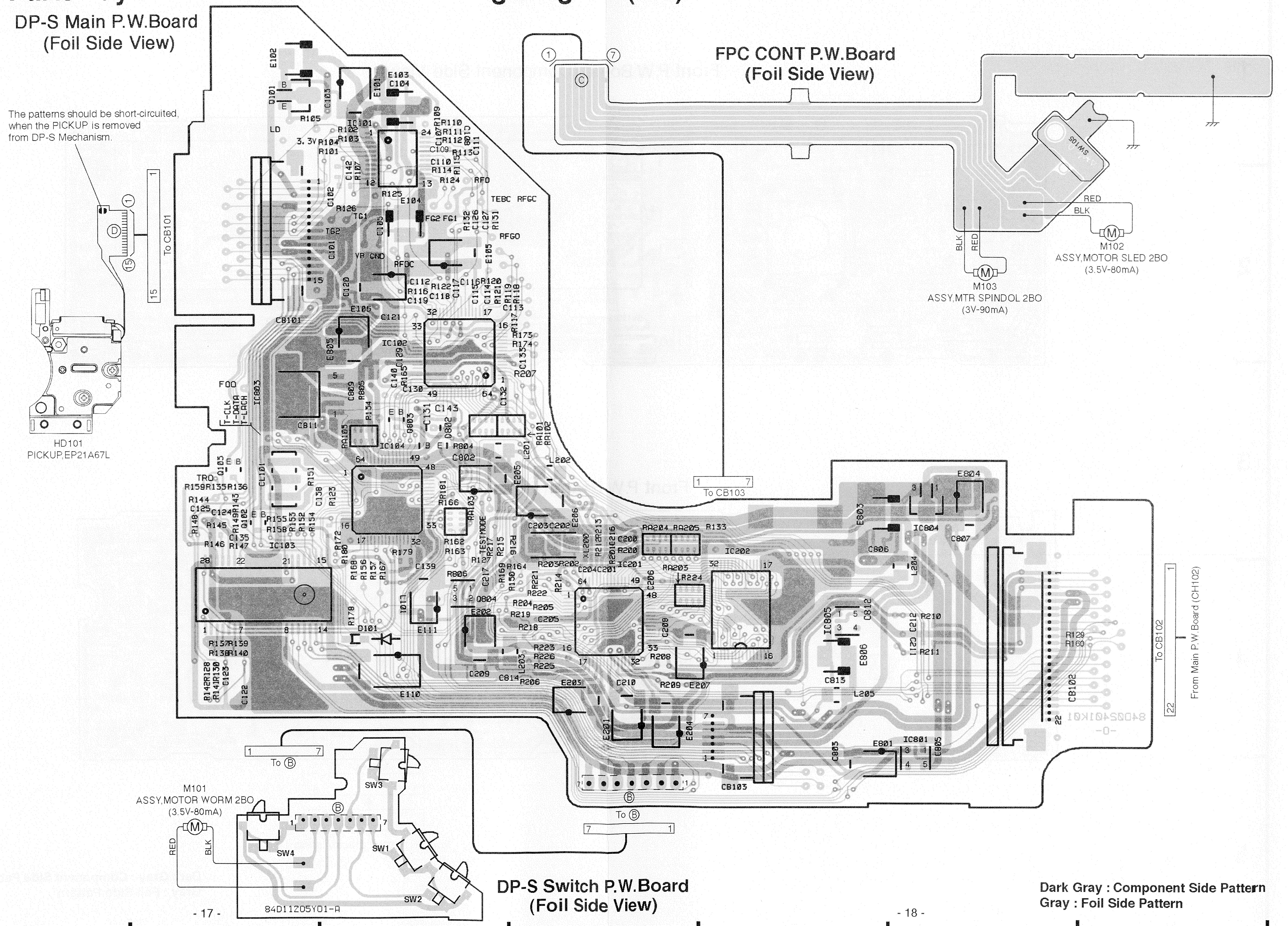
A | B | C | D | E | F | G

Parts Layout on P.W.Boards and Wiring Diagram (4/4)

DP-S Main P.W.Board
(Foil Side View)

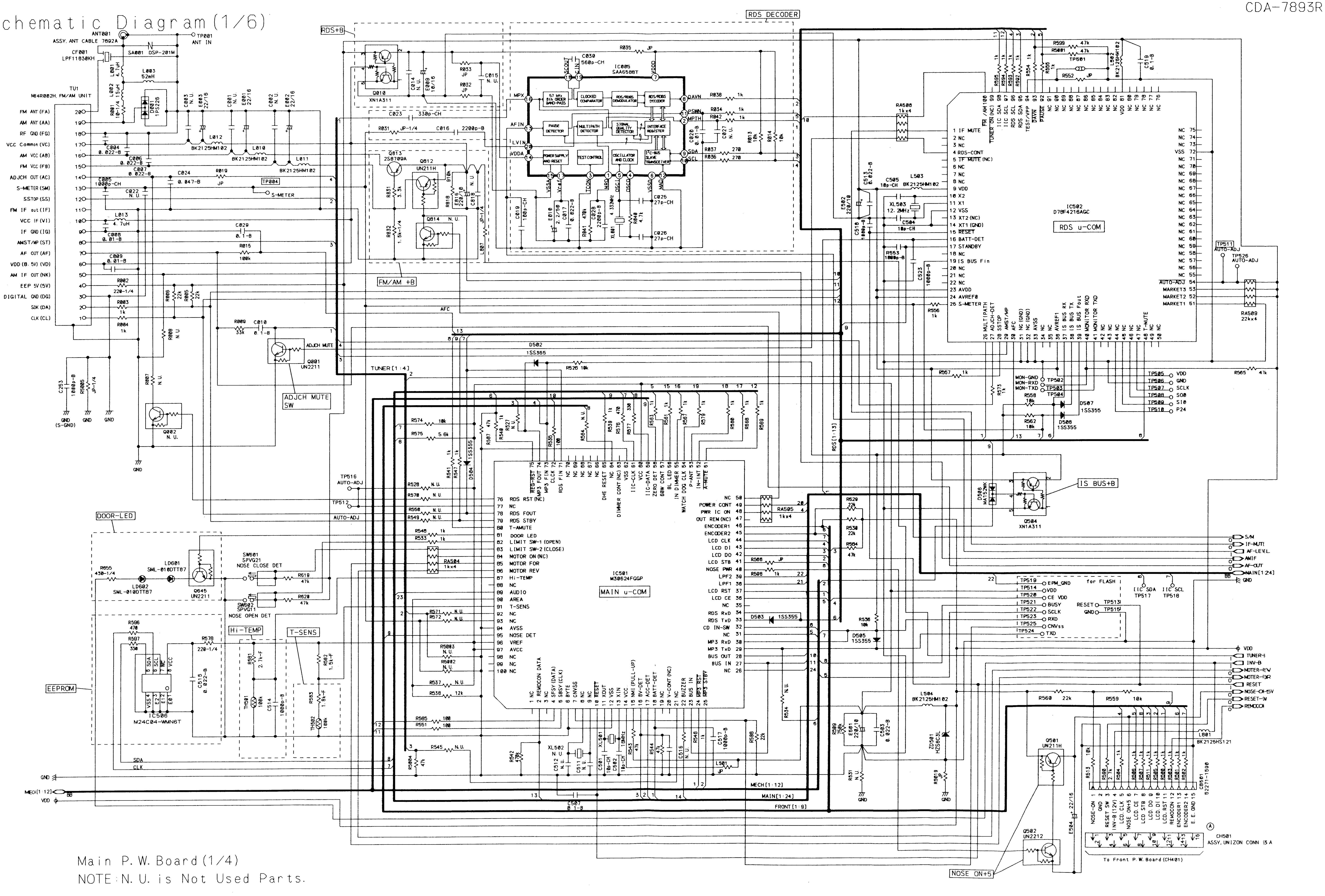
FPC CONT P.W.Board
(Foil Side View)

DP-S Switch P.W.Board
(Foil Side View)


1
2
3
4
5
A
B
C
D
E
F
G
The patterns should be short-circuited, when the PICKUP is removed from DP-S Mechanism.
To CB101
①
⑮
Ⓓ
1
15
HD101
PICKUP,EP21A67L
E102
Q101
B
E
C103
E101
E103
C104
R105
LD
3.3V
IC101
R102
R104
R103
R101
R110
R111
R112
R113
R109
C107
C109
C111
C110
R114
R124
RFO
C142
R107
C102
R125
E104
TEBC
RFGC
R126
TG1
TG2
C105
FG2
FG1
R132
C126
C127
R131
RFGO
C101
VR
GND
RFDC
E105
C120
C112
R116
C119
R122
C118
C116
R120
C115
C114
R121
R119
R118
C113
E106
C121
CB101
IC102
R117
R175
R174
C133
R207
E805
C129
C165
C140
C130
FOO
IC803
C809
R805
R134
T-CLK
T-DATA
T-LACH
C811
RA105
IC104
Q803
C131
C143
Q802
RA101
RA102
L201
L202
R804
C802
E205
TRO
Q105
R159
R135
R136
R144
C125
C124
R143
R149
Q102
R145
R148
C135
R146
R147
CL101
R151
C138
R123
R155
R153
R158
R152
R154
IC103
R172
R180
R181
R166
RA103
R162
R163
TESTMODE
R217
R215
R216
R127
R179
C203
C202
E206
XL200
R212
R213
R201
R211
C200
R200
RA204
RA205
R133
IC202
IC201
C204
C201
RA203
R224
R203
R202
R164
R159
R150
R221
R222
R214
C206
C139
R806
R168
R156
R157
R167
Q804
E202
C217
R204
R205
R219
C205
R218
IO11
E111
R178
D101
R137
R139
R138
R140
R142
R128
R141
R130
C123
C122
E110
C209
C814
L203
R223
R226
R225
R206
E203
C210
C208
R208
R209
E207
E201
E204
CB103
E804
E803
IC804
C807
C806
L204
IC805
C812
R210
C212
R211
E806
C813
L205
E801
IC801
C803
C805
R129
R160
CB102
84D02401K01
-0-
To CB102
From Main P.W.Board (CH102)
22
Ⓒ
⑦
SW105
RED
BLK
M102
ASSY,MOTOR SLED 2BO
(3.5V-80mA)
M103
ASSY,MTR SPINDOL 2BO
(3V-90mA)
To CB103
To Ⓑ
7
Ⓑ
M101
ASSY,MOTOR WORM 2BO
(3.5V-80mA)
SW1
SW2
SW3
SW4
84D11Z05Y01-A

Dark Gray : Component Side Pattern
Gray : Foil Side Pattern

Schematic Diagram(1/6)

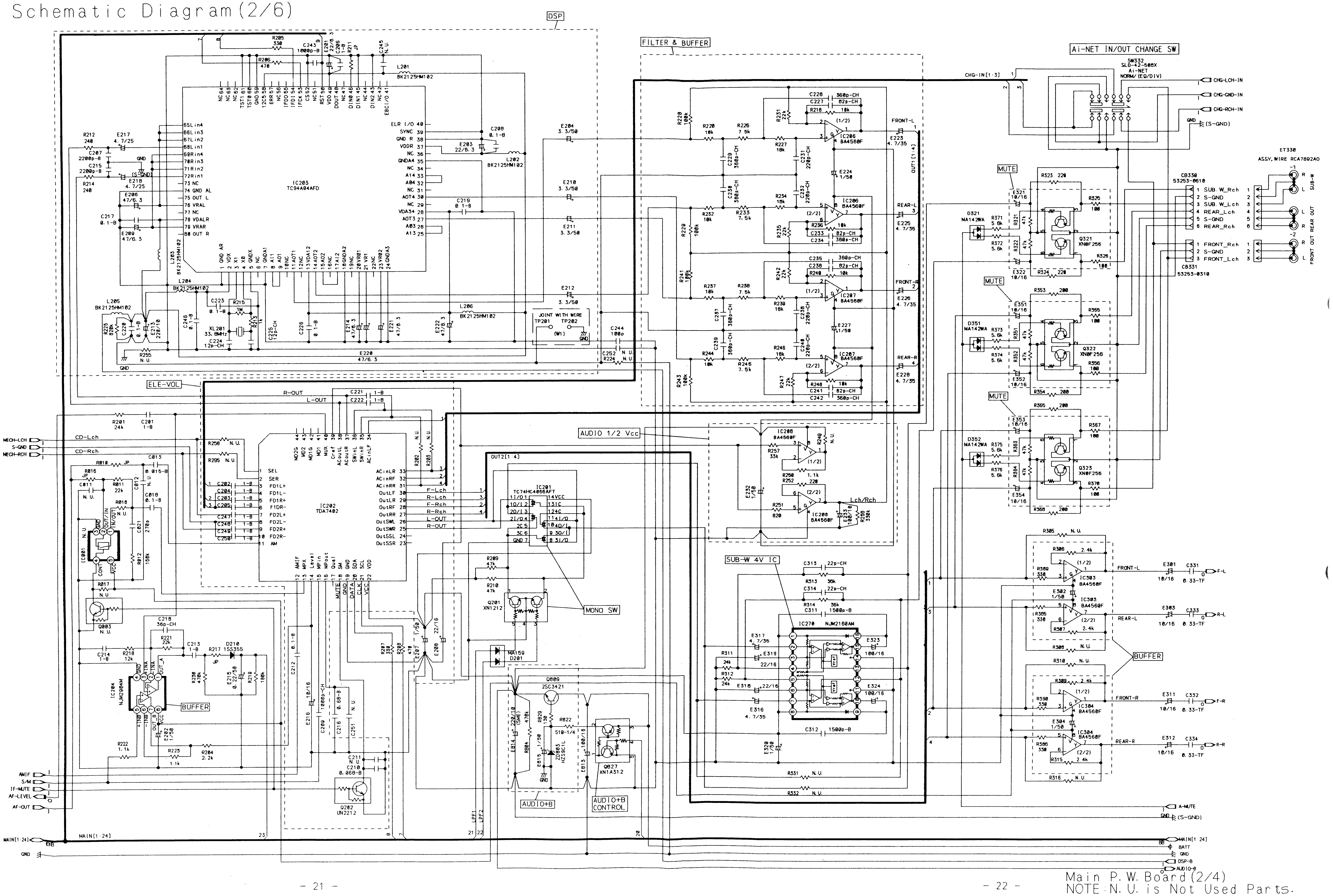

ANT001
ASSY. ANT CABLE 7802A
TP001
ANT IN
CF001
LPF11030KH
SA001 DSP-201M
TU1
M84R002H, FM/AM UNIT
FM ANT (FA)
AM ANT (AA)
RF GND (FG)
VCC Common (VC)
AM VCC (AB)
FM VCC (FB)
ADJCH OUT (AC)
S-METER (SM)
SSTOP (SS)
FM IF out (IF)
VCC IF (VI)
IF GND (IG)
AMST/MP (ST)
AF OUT (AF)
VDD (8.5V) (VD)
AM IF OUT (NK)
EEP 5V (5V)
DIGITAL GND (DG)
SDK (DA)
CLK (CL)
RDS+B
RDS DECODER
IC005
SAA6588T
Q010
XN1A311
Q013
2SB709A
Q012
UN211H
Q014
FM/AM +B
TP004
S-METER
Q001
UN2211
ADJCH MUTE
ADJCH MUTE SW
Q002
TUNER [1:4]
AFC
D502
1SS355
IC501
M30624FGGP
MAIN u-COM
IC502
D78F4216AGC
RDS u-COM
RA500
1kx4
RA505
1kx4
RA509
22kx4
TP511
AUTO-ADJ
TP526
AUTO-ADJ
Q504
XN1A311
IS BUS+B
D507
1SS355
D508
1SS355
TP516
AUTO-ADJ
TP512
DOOR-LED
LD601
SML-010DTT87
LD602
SML-010DTT87
Q645
UN2211
SW601
SPVG21
NOSE CLOSE DET
SW602
SPVG11
NOSE OPEN DET
EEPROM
IC506
M24C04-WMN6T
Hi-TEMP
T-SENS
TH501
TH502
RA504
1kx4
D503
1SS355
D505
1SS355
for FLASH
TP517
TP518
RESET
GND
L504
BK2125HM102
ZD501
HZS6C3L
Q501
UN211H
Q502
UN2212
NOSE ON+5
L001
BK2125HS121
CN501
52271-1590
CH501
ASSY. UNIZON CONN 13 A
To Front P.W. Board (CH401)
XL501
XL502
XL503
12.2MHz
MECH [1:12]
MAIN [1:24]
FRONT [1:9]
RDS [1:13]
GND
VDD
S/M
IF-MUTE
AF-LEVEL
AMIF
AF-OUT
MAIN [1:24]
TUNER-I
INV-B
MOTER-REV
MOTER-FOR
RESET
NOSE-ON+5V
RESET-SW
REMOCON

Main P.W. Board(1/4)

NOTE:N.U. is Not Used Parts.

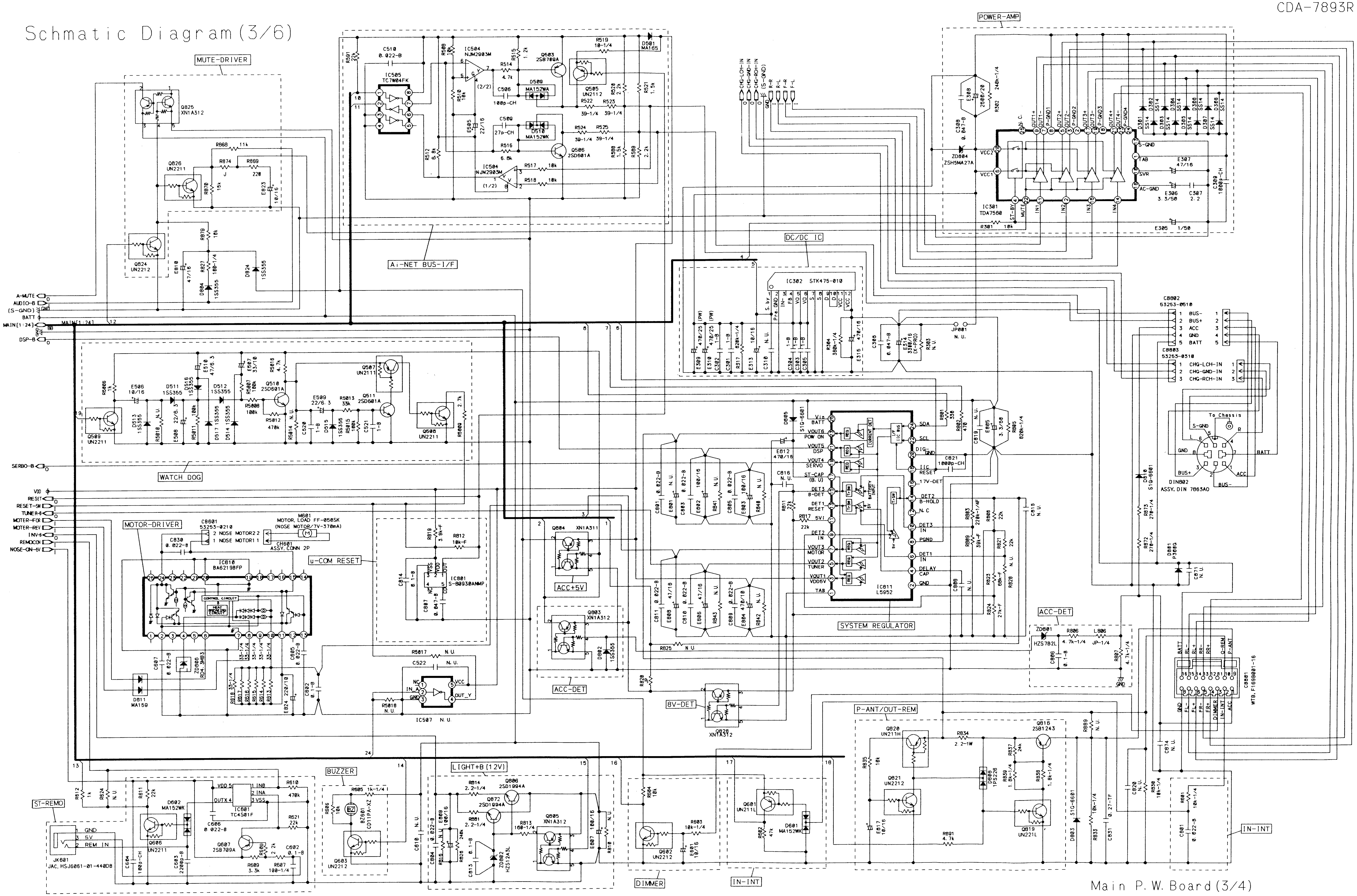
CDA-7893R

Schematic Diagram (2/6)


DSP
IC203
TC94A04AFD
FILTER & BUFFER
IC206
BA4560F
IC207
BA4560F
Ai-NET IN/OUT CHANGE SW
SW332
SLD-42-500X
Ai-NET
NORM/(EQ/DIV)
CHG-IN[1:3]
CHG-LCH-IN
CHG-GND-IN
CHG-RCH-IN
(S-GND)
ET330
ASSY,WIRE RCA7892A0
CB330
53253-0610
SUB.W_Rch
S-GND
SUB.W_Lch
REAR_Lch
S-GND
REAR_Rch
CB331
53253-0310
FRONT_Rch
S-GND
FRONT_Lch
SUB-W
REAR OUT
FRONT OUT
MUTE
D321
MA142WA
Q321
XN0F256
D351
MA142WA
Q322
XN0F256
D352
MA142WA
Q323
XN0F256
ELE-VOL
IC202
TDA7402
AUDIO 1/2 Vcc
IC208
BA4560F
Lch/Rch
OUT2[1:4]
IC201
TC74HC4066AFT
MONO SW
Q201
XN1212
MA159
D201
SUB-W 4V IC
IC270
NJM2160AM
BUFFER
IC303
BA4560F
IC304
BA4560F
FRONT-L
REAR-L
FRONT-R
REAR-R
F-L
R-L
F-R
R-R
MECH-LCH
S-GND
MECH-RCH
CD-Lch
CD-Rch
IC001
Q003
IC204
NJM2904M
BUFFER
D210
1SS355
Q202
UN2212
Q009
2SC3421
ZD803
HZS9C1L
Q027
XN1A312
AUDIO+B
AUDIO+B CONTROL
AMIF
S/M
IF-MUTE
AF-LEVEL
AF-OUT
MAIN[1:24]
GND
A-MUTE
(S-GND)
BATT
DSP-B
AUDIO-B

Main P.W. Board (2/4)
NOTE: N.U. is Not Used Parts.

Schmatic Diagram (3/6)


MUTE-DRIVER
Q825 XN1A312
Q826 UN2211
Q824 UN2212
A-MUTE
AUDIO-B
(S-GND)
BATT
MAIN(1:24)
DSP-B
Ai-NET BUS-I/F
IC505 TC7W04FK
IC504 NJM2903M
Q503 2SB709A
Q505 UN2112
Q506 2SD601A
D501 MA165
D509 MA152WA
D510 MA152WK
POWER-AMP
IC301 TDA7560
ZD804 ZSH5MA27A
CHG-LCH-IN
CHG-GND-IN
CHG-RCH-IN
(S-GND)
R-R
R-L
F-R
F-L
DC/DC IC
IC302 STK475-010
JP801 N. U.
WATCH DOG
Q509 UN2211
Q510 2SD601A
Q511 2SD601A
Q507 UN2111
Q508 UN2211
SERBO-B
VDD
RESET
RESET-SW
TUNER-B
MOTER-FOR
MOTER-REV
INV-B
REMOCON
NOSE-ON-5V
MOTOR-DRIVER
CB601 53253-0210
M601 MOTOR, LOAD FF-050SK (NOSE MOTOR/TV-378nA)
CH601 ASSY.CONN 2P
IC610 BA6219BFP
D611 MA159
u-COM RESET
IC801 S-80930ANMP
IC507 N. U.
Q804 XN1A311
ACC+5V
Q803 XN1A312
ACC-DET
8V-DET
Q820 XN1A312
IC811 L5952
SYSTEM REGULATOR
CB802 53253-0510
1 BUS-
2 BUS+
3 ACC
4 GND
5 BATT
CB803 53253-0310
1 CHG-LCH-IN
2 CHG-GND-IN
3 CHG-RCH-IN
To Chassis
DIN802 ASSY.DIN 7863A0
ACC-DET
ZD801 HZS7B2L
CB801 WTB,F169B01-16
P-ANT/OUT-REM
Q820 UN211H
Q816 2SB1243
Q821 UN2212
Q819 UN221L
IN-INT
ST-REMO
JK601 JAC,HSJ6061-01-440DB
Q606 UN2211
D602 MA152WK
IC601 TC4S01F
Q607 2SB709A
BUZZER
BZ601 CD11PA-XZ
Q603 UN2212
LIGHT+B(12V)
Q806 2SD1994A
Q872 2SD1994A
Q805 XN1A312
ZD802 HZS12A3L
DIMMER
Q602 UN2212
IN-INT
Q601 UN211L
D601 MA152WK

Main P. W. Board (3/4)

NOTE: N. U. is Not Used Parts.

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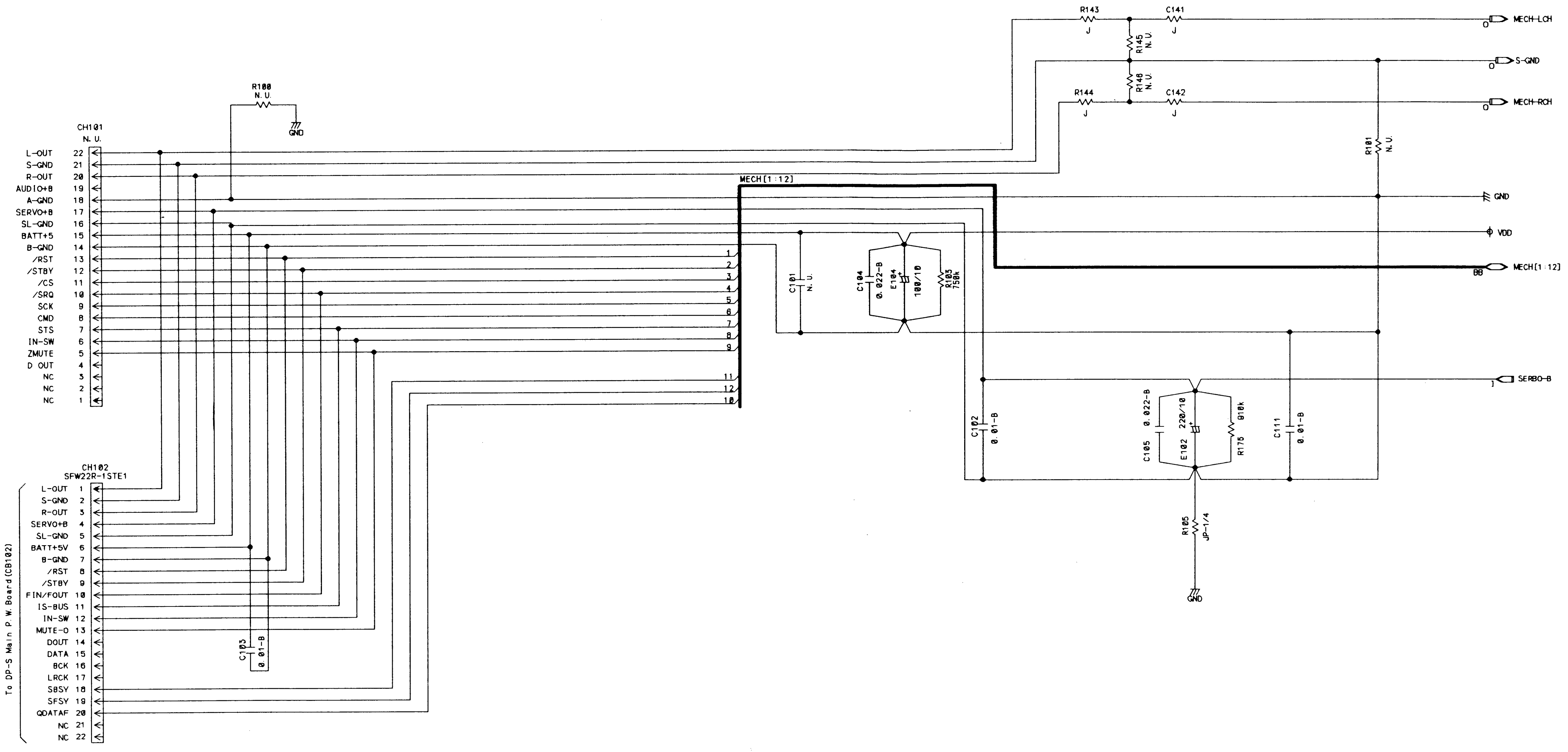
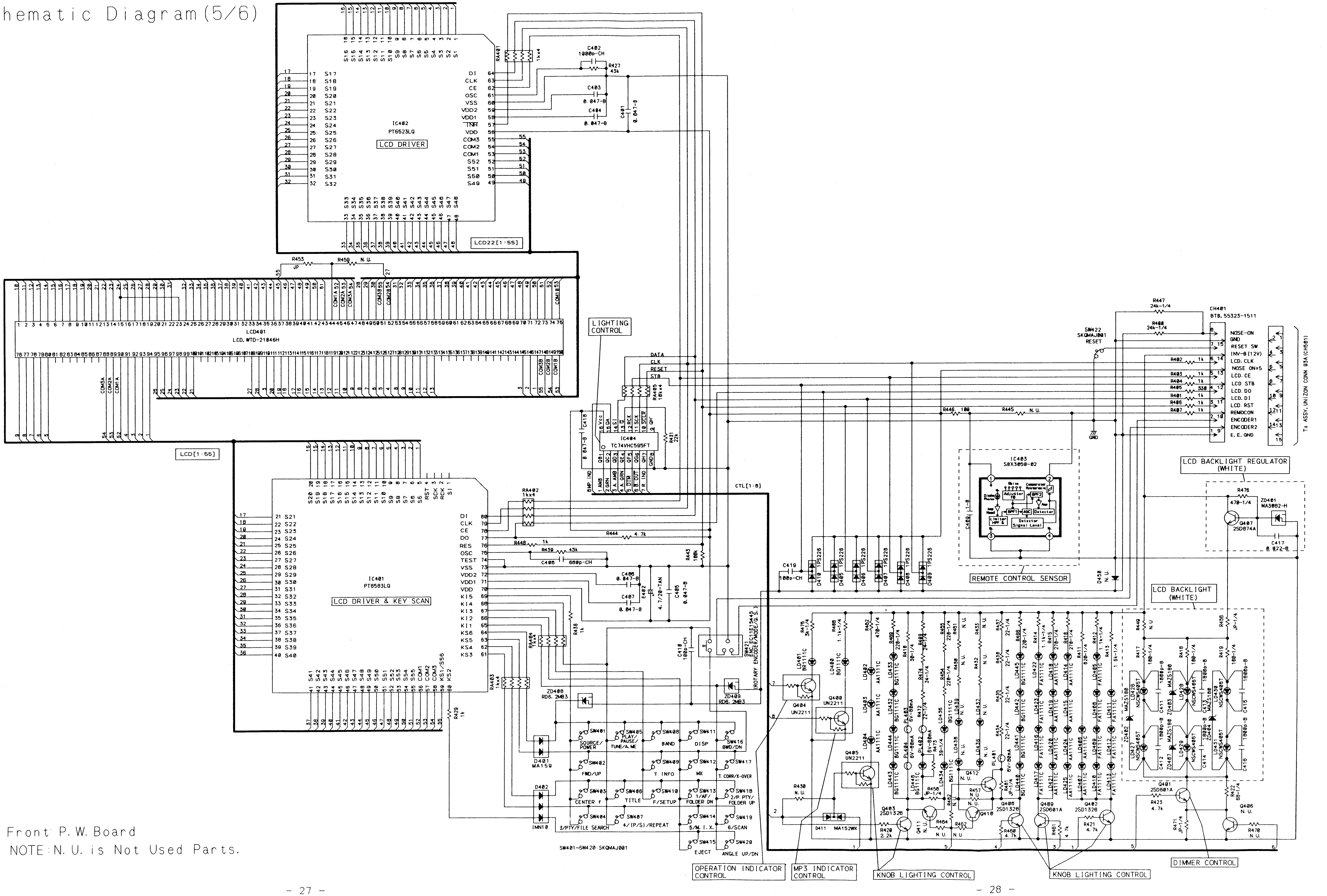
Schematic Diagram (4/6)


R100
N.U.
GND
CH101
N.U.
L-OUT 22
S-GND 21
R-OUT 20
AUDIO+B 19
A-GND 18
SERVO+B 17
SL-GND 16
BATT+5 15
B-GND 14
/RST 13
/STBY 12
/CS 11
/SRQ 10
SCK 9
CMD 8
STS 7
IN-SW 6
ZMUTE 5
D OUT 4
NC 3
NC 2
NC 1
CH102
SFW22R-1STE1
To DP-S Main P. W. Board (CB102)
L-OUT 1
S-GND 2
R-OUT 3
SERVO+B 4
SL-GND 5
BATT+5V 6
B-GND 7
/RST 8
/STBY 9
FIN/FOUT 10
IS-BUS 11
IN-SW 12
MUTE-O 13
DOUT 14
DATA 15
BCK 16
LRCK 17
SBSY 18
SFSY 19
QDATAF 20
NC 21
NC 22
C103
0.01-B
MECH[1:12]
1
2
3
4
5
6
7
8
9
11
12
10
R143
J
C141
J
R145
N.U.
R146
N.U.
R144
J
C142
J
MECH-LCH
S-GND
MECH-RCH
R101
N.U.
GND
VDD
MECH[1:12]
BB
C101
N.U.
C104
0.022-B
E104
100/10
R103
750k
SERBO-B
C102
0.01-B
C105
0.022-B
E102
220/10
R175
910k
C111
0.01-B
R105
JP-1/4
GND

Main P. W. Board (4/4)

NOTE: N. U. is Not Used Parts.

Schematic Diagram (5/6)


IC402
PT6523LQ
LCD DRIVER
LCD22[1:55]
LCD401
LCD, WTD-21846H
LCD[1:55]
IC401
PT6583LQ
LCD DRIVER & KEY SCAN
LIGHTING CONTROL
IC404
TC74VHC595FT
CTL[1:8]
IC403
S8X3050-02
REMOTE CONTROL SENSOR
LCD BACKLIGHT REGULATOR (WHITE)
LCD BACKLIGHT (WHITE)
CH401
BTB, 55323-1511
NOSE-ON
GND
RESET SW
INV-B (12V)
LCD. CLK
NOSE ON+5
LCD. CE
LCD STB
LCD. DO
LCD. DI
LCD. RST
REMOCON
ENCODER1
ENCODER2
E. E. GND
To ASSY. UNIZON CONN 03A (CH501)
SW422
SKQMAJ001
RESET
DATA
CLK
RESET
STB
SW421
EC11E15445
(ROTARY ENCODER/MODE/Q.S.)
SW401 SOURCE/POWER
SW405 PLAY/PAUSE/TUNE/A.ME
SW408 BAND
SW411 DISP
SW416 BWD/DN
SW402 FWD/UP
SW409 T. INFO
SW412 MX
SW417 T. CORR/X-OVER
SW403 CENTER f
SW406 TITLE
SW410 F/SETUP
SW413 1/AF/FOLDER DN
SW418 2/P. PTY/FOLDER UP
SW404 3/PTY/FILE SEARCH
SW407 4/(P/S)/REPEAT
5/M. I. X.
SW419 6/SCAN
SW415 EJECT
SW420 ANGLE UP/DN
SW401-SW420: SKQMAJ001
D401 MA159
D402 IMN10
ZD400 RD6. 2MB3
ZD409 RD6. 2MB3
Q404 UN2211
Q400 UN2211
Q405 UN2211
Q403 2SD1328
Q408 2SD1328
Q409 2SD601A
Q402 2SD1328
Q401 2SD601A
Q406 N. U.
Q407 2SD874A
ZD401 MA3082-H
D411 MA152WK
OPERATION INDICATOR CONTROL
MP3 INDICATOR CONTROL
KNOB LIGHTING CONTROL
KNOB LIGHTING CONTROL
DIMMER CONTROL

Front P. W. Board
NOTE: N. U. is Not Used Parts.

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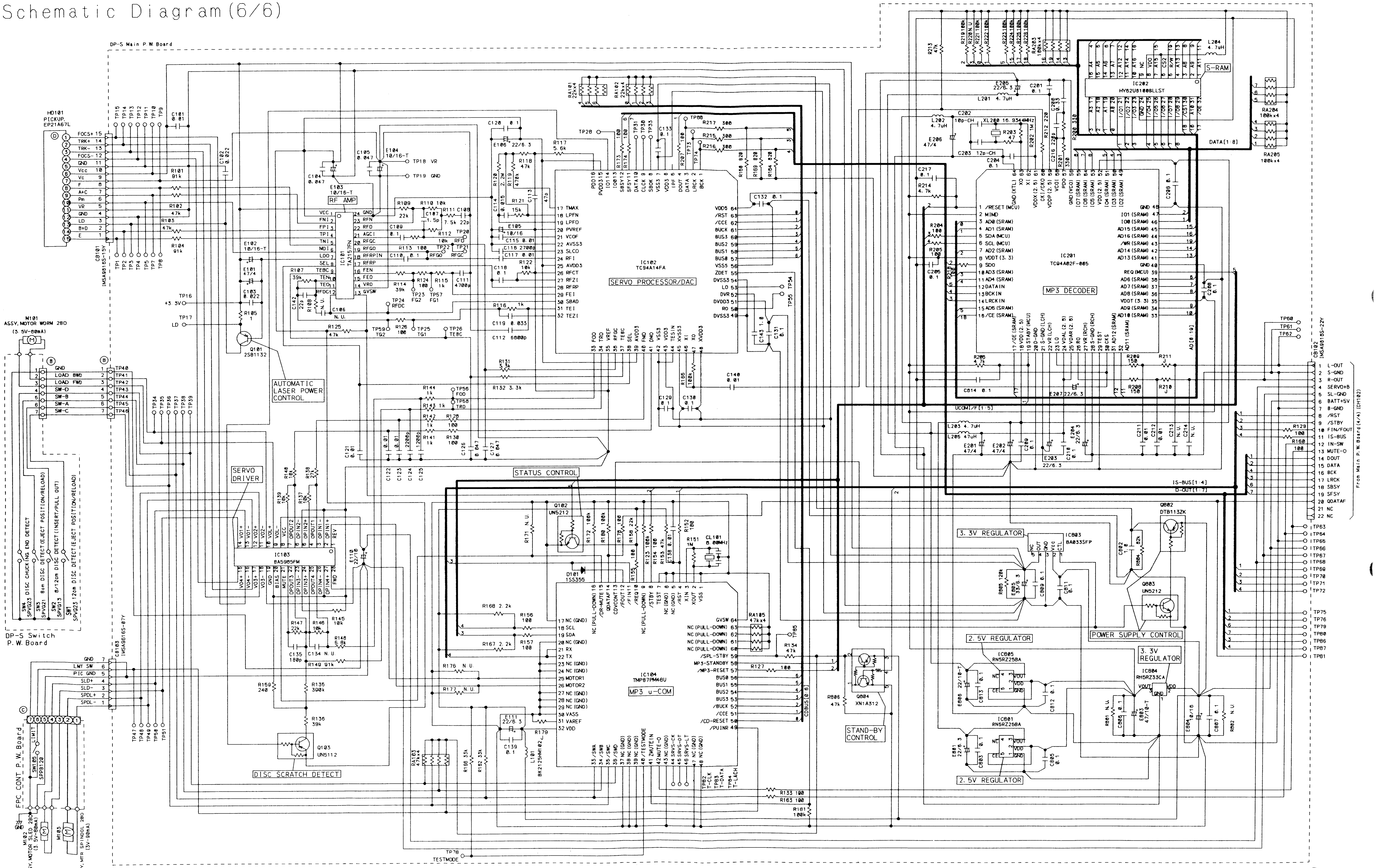
Schematic Diagram (6/6)



DP-S Main P.W.Board
HD101 PICKUP, EP21A67L
RF AMP
IC101 TA2157FN
AUTOMATIC LASER POWER CONTROL
Q101 2SB1132
IC102 TC94A14FA
SERVO PROCESSOR/DAC
SERVO DRIVER
IC103 BA5985FM
STATUS CONTROL
Q102 UN5212
D101 1SS355
CL101 8.00MHz
IC104 TMP87PM40U
MP3 u-COM
DISC SCRATCH DETECT
Q103 UN5112
L101 BK2125HM102
IC202 HY62U8100BLLST
S-RAM
RA204 100kx4
RA205 100kx4
DATA[1:8]
XL200 16.9344MHz
IC201 TC94A02F-005
MP3 DECODER
CN102 IMSA9616S-22Y
From Main P.W.Board (4/4) (CN102)
IS-BUS[1:4]
D-OUT[1:7]
UCOM[1:5]
CDBUS[0:6]
3.3V REGULATOR
IC803 BA033SFP
Q802 DTB113ZK
Q803 UN5212
POWER SUPPLY CONTROL
2.5V REGULATOR
IC805 RN5RZ258A
IC801 RN5RZ258A
3.3V REGULATOR
IC804 RH5RZ33CA
Q804 XN1A312
STAND-BY CONTROL
M101 ASSY,MOTOR WORM 280 (3.5V-80mA)
DP-S Switch P.W.Board
SW4 SPVG23 DISC CHUCKING END DETECT
SW3 SPVG21 8cm DISC DETECT(EJECT POSITION/RELOAD)
SW2 SPVG13 8/12cm DISC DETECT(INSERT/PULL OUT)
SW1 SPVG23 12cm DISC DETECT(EJECT POSITION/RELOAD)
CN101 IMSA9616S-15Y
CN103 IMSA9616S-07Y
FPC CONT P.W.Board
SW105 SPPB120 LIMIT
M102 ASSY,MOTOR SLED 280 (3.5V-80mA)
M103 ASSY,MTR SPINDOL 280 (3V-90mA)
TP78 TESTMODE

NOTE: N. U. is Not Used Parts.

Terminal Voltage of IC/TR

IC005								
1	0	6	0	11	0/4.8	CD782:Trk1/Trk2	16	2.4
2	0	7	4.8	12	0		17	2.4
3	0	8	4.8	13	2.4		18	2.4
4	CLK	9	PS	14	4.8		19	2.4
5	CLK	10	PS	15	0		20	2.4

IC201					
1	4.4		8	4.4	
2	4.4		9	4.4	
3	4.4		10	4.4	
4	4.4		11	4.4	
5	0/8.7	LPF:FLAT/ON	12	8.7/0	LPF:FLAT/ON
6	0/8.7	LPF:FLAT/ON	13	8.7/0	LPF:FLAT/ON
7	0		14	8.8	

IC202									
1	NC	10	4.3	19	0	28	4.4	37	4.4
2	NC	11	4.3	20	4.9	29	4.4	38	4.4
3	4.3	12	4.3	21	4.9	30	4.4	39	4.4
4	4.3	13	4.3	22	8.7	31	4.3	40	4.4
5	4.3	14	4.3	23	NC	32	4.3	41	NC
6	4.3	15	0.7	24	NC	33	4.3	42	NC
7	4.3	16	4.3	25	4.4	34	4.3	43	NC
8	4.3	17	NC	26	4.4	35	4.3	44	NC
9	4.3	18	3.6	27	4.4	36	4.3		

IC203									
1	0	17	2.4	33	2.4	49	4.9	65	2.4
2	4.9	18	0	34	NC	50	4.9	66	2.4
3	CLK	19	NC	35	0	51	NC	67	2.4
4	CLK	20	2.5	36	NC	52	0	68	2.4
5	0	21	2.5	37	4.9	53	PS	69	2.4
6	NC	22	NC	38	0	54	PS	70	2.4
7	0	23	2.3	39	0	55	NC	71	2.4
8	2.5	24	0	40	NC	56	NC	72	2.4
9	2.5	25	2.4	41	NC	57	NC	73	NC
10	NC	26	2.4	42	NC	58	4.9	74	0
11	2.5	27	2.4	43	0	59	0	75	NC
12	NC	28	4.9	44	NC	60	0	76	2.4
13	4.9	29	NC	45	0	61	0	77	NC
14	2.4	30	2.4	46	0	62	NC	78	4.9
15	2.4	31	NC	47	NC	63	NC	79	2.4
16	NC	32	2.4	48	NC	64	NC	80	NC

IC204		
1	4.4	
2	4.4	
3	4.4	
4	0	
5	4.2/0	TUNER/DISK
6	4.2/0	TUNER/DISK
7	4.2/0	TUNER/DISK
8	8.8	

IC206	
1	4.4
2	4.4
3	4.3
4	0
5	4.3
6	4.4
7	4.4
8	8.8

IC207	
1	4.4
2	4.4
3	4.3
4	0
5	4.3
6	4.4
7	4.4
8	8.8

IC208	
1	4.4
2	4.4
3	4.4
4	0
5	4.4
6	4.4
7	4.4
8	8.8

IC270			
1	8.7	9	8
2	3	10	0.7
3	4.5	11	0
4	3	12	7.4
5	3	13	7.4
6	4.5	14	0
7	3	15	0.7
8	8.7	16	8

IC301							
1	0		10	6.9	19	6.8	
2	0		11	6.9	20	14.1	
3	6.8		12	6.8	21	6.8	
4	0/4.9	STBY:ON/OFF	13	0	22	0/5.1	MUTE:ON/OFF
5	6.8		14	6.9	23	6.8	
6	14.1		15	6.9	24	0	
7	6.8		16	6.9	25	NC	
8	0		17	6.8			
9	6.8		18	0			

IC302			
1	0	7	0
2	0	8	0
3	NC	9	14.3
4	14	10	14.3
5	14	11	14.3
6	14	12	14.3

IC303	
1	4.4
2	4.4
3	4.4
4	0
5	4.4
6	4.4
7	4.4
8	8.8

IC304	
1	4.4
2	4.4
3	4.4
4	0
5	4.4
6	4.4
7	4.4
8	8.8

IC401									
1	NC	17	PS	33	PS	49	PS	65	PS
2	NC	18	PS	34	PS	50	PS	66	PS
3	NC	19	PS	35	PS	51	PS	67	PS
4	NC	20	PS	36	PS	52	PS	68	PS
5	PS	21	PS	37	PS	53	PS	69	PS
6	PS	22	PS	38	PS	54	PS	70	4.9
7	PS	23	PS	39	PS	55	PS	71	3.2
8	PS	24	PS	40	PS	56	PS	72	1.6
9	PS	25	PS	41	PS	57	PS	73	0
10	PS	26	PS	42	PS	58	PS	74	0
11	PS	27	PS	43	PS	59	PS	75	PS
12	PS	28	PS	44	PS	60	PS	76	4.9
13	PS	29	PS	45	PS	61	PS	77	PS
14	PS	30	PS	46	PS	62	PS	78	PS
15	PS	31	PS	47	PS	63	PS	79	CLK
16	PS	32	PS	48	PS	64	PS	80	PS

IC402									
1	PS	14	PS	27	PS	40	PS	53	PS
2	PS	15	PS	28	PS	41	PS	54	PS
3	PS	16	PS	29	PS	42	PS	55	PS
4	PS	17	PS	30	PS	43	PS	56	4.9
5	PS	18	PS	31	PS	44	PS	57	4.9
6	PS	19	PS	32	PS	45	PS	58	3.2
7	PS	20	PS	33	PS	46	PS	59	1.6
8	PS	21	PS	34	PS	47	PS	60	0
9	PS	22	PS	35	PS	48	PS	61	PS
10	PS	23	PS	36	PS	49	PS	62	PS
11	PS	24	PS	37	PS	50	PS	63	PS
12	PS	25	PS	38	PS	51	PS	64	PS
13	PS	26	PS	39	PS	52	PS		

IC403	
1	4.8
2	PS
3	0
4	0

IC404					
1	0.1/4.9	AMB:OFF/ON	9	NC	
2	4.9	GREEN	10	PS	
3	4.9	AUDIO AMBER	11	PS	
4	4.9	AUDIO GREEN	12	PS	
5	4.9/0	DIMMER:OFF/ON	13	0	
6	NC		14	PS	
7	4.9	REM IND	15	0/4.9	CD/MP3
8	0		16	4.9	

IC501

1	NC		51	4.9/0	MUTE:OFF/ON
2	PS	at Input REMO-CON	52	0/4.9	IN-INT:OFF/ON
3	NC		53	4.9/0	TUNER/DISC
4	PS	TEXT DISC first reading	54	CLK	
5	CLK	TEXT DISC first reading	55	4.9/0	ILLM:OFF/ON
6	0		56	4.9	
7	0		57	0	
8	NC		58	4.9/0	0bit MUTE ON/OFF
9	NC		59	PS	
10	4.9		60	4.9	
11	CLK		61	PS	
12	0		62	0	
13	CLK		63	NC	
14	4.9		64	NC	
15	4.9		65	4.9	
16	4.9		66	NC	
17	4.9		67	NC	
18	4.9		68	NC	
19	NC		69	NC	
20	NC		70	NC	
21	NC		71	PS	
22	0/PS	BUZZER:OFF/ON	72	CLK	MP3 DISC first reading
23	PS		73	4.9/PS	TUNER/DISK
24	4.9		74	4.9/PS	TUNER/DISK
25	0/4.9	TUNER/DISK	75	4.9	
26	NC		76	NC	
27	PS		77	NC	
28	PS		78	PS	
29	4.9/PS	TUNER/DISK	79	4.9	
30	4.9/PS	TUNER/DISK	80	4.9	
31	NC		81	0/4.9	Nose:Close/Open
32	4.9/0	CD IN/OUT	82	4.9/0	Nose:Close/Open
33	PS		83	0/4.9	Nose:Close/Open
34	PS		84	NC	
35	NC		85	4.9	at active NOSE Opened
36	PS		86	4.9	at active NOSE Closed
37	4.9		87	4.7	
38	4.9/0	LPF:FLAT/ON	88	NC	
39	0/4.9	LPF:FLAT/ON	89	-	
40	4.9		90	0	
41	PS		91	4.8	
42	PS		92	NC	
43	PS		93	NC	
44	PS		94	0	
45	PS		95	2.5	
46	PS		96	4.9	
47	NC		97	4.9	
48	4.9/0	PWR IN:ON/OFF	98	NC	
49	4.9		99	NC	
50	NC		100	NC	

IC502					
1	0/Lo or Hi	at receiving RDS : OFF/ON	51	0	
2	NC		52	4.9	
3	NC		53	4.9	
4	0		54	4.9	
5	NC		55	NC	
6	NC		56	NC	
7	NC		57	NC	
8	NC		58	NC	
9	4.9		59	NC	
10	CLK		60	NC	
11	CLK		61	NC	
12	0		62	NC	
13	NC		63	NC	
14	0		64	NC	
15	4.9		65	NC	
16	4.9		66	NC	
17	4.5		67	NC	
18	NC		68	NC	
19	PS		69	NC	
20	NC		70	NC	
21	NC		71	NC	
22	NC		72	0	
23	4.9		73	NC	
24	4.9		74	NC	
25	0.7		75	NC	
26	0		76	NC	
27	0.1/3.8	SEEK STOP/SEEK	77	NC	
28	3.87/PS	SEEK STOP/SEEK	78	NC	
29	4.2/0	AM:SEEK STOP/SEEK	79	NC	
30	2.95	FM:SEEK STOP/SEEK	80	NC	
31	0		81	5	
32	0		82	NC	
33	0		83	NC	
34	NC		84	NC	
35	NC		85	NC	
36	5		86	NC	
37	PS		87	NC	
38	PS		88	NC	
39	PS		89	NC	
40	5		90	NC	
41	5		91	NC	
42	NC		92	0/4.7	CD782:Trk1/Trk2
43	NC		93	4.7	
44	NC		94	0.8	
45	NC		95	PS	
46	NC		96	PS	
47	NC		97	4.9/PS	
48	5/PS	DISC/TUNER	98	4.9/PS	
49	NC		99	NC	
50	NC		100	0.1/8.25	

IC504	
1	PS
2	PS
3	PS
4	0
5	2.4
6	PS
7	PS
8	4.9

IC505	
1	PS
2	PS
3	0
4	0
5	4.9
6	PS
7	PS
8	4.9

IC506	
1	0
2	0
3	0
4	0
5	PS
6	PS
7	0
8	4.9

IC601	
1	4.5
2	0
3	0
4	0
5	4.9

IC801	
1	4.9
2	4.9
3	0
4	NC
5	0

IC811				
1	0	14	4.9	
2	0	15	2.6	
3	4.9	16	NC	
4	4.4	17	13.6	
5	8.2	18	4.8/0	RESET:OFF/ON
6	4.9	19	6.9	
7	8.4	20	0	
8	0	21	4.9	
9	1.4	22	PS	
10	2.1	23	14.3	
11	4.9	24	PS	
12	NC	25	14.3	
13	NC			

IC810					
1	NC		14	NC	
2	5.8	at active NOSE Opened	15	0/4.0	Nose:Open/Close
3	NC		16	NC	
4	3.7	at active NOSE Motor	17	NC	
5	NC		18	NC	
6	3.9	Nose Open	19	0	
7	0		20	0	
8	3.9	Nose Close	21	0	
9	NC		22	NC	
10	8.4		23	NC	
11	8.4		24	4.0/0	Nose:Open/Close
12	NC		25	NC	
13	5.8	at active NOSE Closed			

	1	2	3	4	5	MODE
Q010	NC	4.8	4.9	8.3	0	
Q201	0/8.7	8.7/0	0/4.4	0	4.4/0	Sub.W :LPF ON/FLAT
Q504	NC	4.9	4.9	4.4/4	0	DISK/FM
Q803	NC	4.9/0	4.9	6.4/0	0	ACC:ON/OFF
Q804	NC	4.9/0	4.9	4.9/0	0	ACC:ON/OFF
Q805	NC	14.2/0	14	4.7/0	0	POWER:ON/OFF
Q825	NC	0	14.3/0	0/3.5	0/14.3	MUTE:OFF/ON
Q827	NC	14.0/0	14	4.7/0	0	POWER:ON/OFF
Q828	NC	4.9	4.9	2.7	0	

	1	2	3	4	5	6	MODE
Q321	0	0	0	0/6.4	0	0/6.4	MUTE:OFF/ON
Q322	0	0	0	0/6.3	0	0/6.4	MUTE:OFF/ON
Q323	0	0	0	0/6.3	0	0/6.4	MUTE:OFF/ON

	E	C	B	MODE
Q001	0	PS	0	
Q202	0	3.6	0	
Q400	0.1/0.2	10.2/0.2	0.1/4.9	MP3 IND:OFF/ON
Q401	0	0.2/1.8	0.8/0	DIM:OFF/ON
Q402	0.1/0	9.3/0.1	0.1/0.7	AMB:OFF/ON
Q403	0	0.1	0.8	
Q404	0	0	4.8	
Q405	0	0.1	4.8	
Q407	7.9	11.8	8.5	
Q408	0	0.2/12.1	0.7/0	GRN/AMB
Q409	0	6.9/0.1	0/0.8	GRN/AMB
Q501	4.9	4.9/1.2	0/4.9	ACC:ON/OFF
Q502	0	0/4.9	4.7/0	ACC:ON/OFF
Q503	4.9	2.0/PS	4.9/PS	CHGER:OFF/ON
Q505	4.9	2.0/PS	4.9/PS	RESET:OFF/ON
Q506	0/4.8	2.9/PS	0/PS	CHGER:OFF/ON
Q507	0	0	0	
Q508	0	4.9	0	
Q509	0	PS	PS	
Q510	0	0	0.6	
Q511	0	0	0	
Q601	4.9	0/4.8	8.9/3.0	IN-INT:OFF/ON
Q602	0	4.9/0	0/10.2	DIMER:OFF/ON
Q603	0	14.2/PS	0/PS	BUZER:OFF/ON
Q606	0	4.7	0	
Q607	4.9	0	4.9	
Q645	0	9.1/0	0/4.5	Others/NOSE FULL OPEN
Q806	12.3/0	14	13.0/0	BL LED:ON/OFF
Q809	8.7/0	14	9.3/0	POWER:ON/OFF
Q812	8.2	8.1/2.0	0/8.2	FM/AM
Q813	8.22	0/8.1	8.1/7.4	FM/AM
Q816	14	0/14.3	14.3/13.6	DISC/FM
Q819	0	14.3/0	0/2.5	DISC/FM
Q820	14.3	14.3	0	
Q821	0	0	9.9	
Q824	0	0/3.5	4.7/0	MUTE:OFF/ON
Q826	0	5.0/0	0/3.5	MUTE:OFF/ON
Q872	12.4/0	14	13.1/0	BL LED:ON/OFF

[Measuring Conditions]

- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Meter
- Measuring Point Reference : Between GND
- Measuring Conditions : FM : 98.1MHz
  AM : 999KHz
  CD : at playing Disc

(CD Deck Mechanism)

IC101			
1	3.32	13	2.73
2	1.62	14	1.66
3	1.62	15	1.65
4	1.7	16	1.67
5	1.7	17	2.93
6	0.19	18	1.66
7	2.63	19	1.25
8	2.06	20	0.23
9	2.63	21	2.38
10	1.34	22	1.26
11	1.63	23	1.66
12	2.77	24	0.01

IC103			
1	0.01	15	3.41
2	1.66	16	3.15
3	1.66	17	3.28
4	1.67	18	3.28
5	1.67	19	0
6	1.66	20	1.66
7	1.57	21	4.99
8	6.95	22	1.67
9	0.03	23	1.66
10	0.03	24	1.67
11	3.58	25	1.69
12	2.94	26	1.66
13	3.13	27	1.67
14	3.43	28	0.01

IC102				
1	PS(0-3.3)	DIGITAL OUTPUT	33	1.63
2	PS(0-3.3)	DIGITAL OUTPUT	34	1.67
3	PS(0-3.3)	DIGITAL OUTPUT	35	1.66
4	PS(0-3.3)	DIGITAL OUTPUT	36	0.13
5	0.01		37	1.63
6	3.32		38	2.06
7	0.01		39	3.32
8	4.99		40	1.55
9	1.81		41	1.77
10	4.99		42	0
11	4.99		43	3.32
12	1.66		44	0.01
13	1.31		45	0.01
14	4.99		46	CLK
15	3.32		47	CLK
16	1.66		48	3.32
17	1.67		49	0.01
18	1.67		50	1.64
19	1.57		51	3.32
20	1.67		52	1.64
21	1.06		53	1.64
22	0.01		54	0.01
23	1.59		55	5
24	1.66		56	0.01
25	3.32		57	PS(0-5)
26	1.66		58	PS(0-5)
27	1.66		59	PS(0-5)
28	2.95		60	PS(0-5)
29	1.65		61	PS(0-5)
30	2.77		62	PS(0-5)
31	1.63		63	5
32	1.66		64	5

IC104							
1	0.01	17	0.01	33	2.83	49	4.99
2	CLK	18	5.02	34	0	50	5
3	CLK	19	5.02	35	0	51	PS(0-5)
4	4.54	20	0.01	36	0	52	PS(0-5)
5	0.01	21	PS(0-5)	37	0.01	53	PS(0-5)
6	0.01	22	PS(0-5)	38	0.01	54	PS(0-5)
7	0.01	23	0.01	39	0.01	55	PS(0-5)
8	4.95	24	0.01	40	5.02	56	PS(0-5)
9	0.01	25	0.01	41	0.01	57	3.31
10	5.02	26	0.01	42	0.01	58	0.02
11	PS(0-5)	27	0.01	43	0.01	59	4.99
12	PS(0-5)	28	0.01	44	0.01	60	0.01
13	4.97	29	0.01	45	0.01	61	0.01
14	0	30	0.01	46	3.21	62	0.01
15	5	31	0.01	47	0.01	63	0.01
16	0.01	32	5.02	48	0.01	64	2.74

IC201								
1	3.31		17	3.31	33	3.31	49	3.31
2	3.31		18	2.43	34	3.31	50	3.31
3	3.31		19	0.02	35	3.31	51	3.4
4	3.31		20	0.01	36	3.31	52	2.43
5	5.02		21	0	37	3.31	53	3.31
6	5.01		22	1.23	38	3.31	54	0.01
7	3.31		23	1.23	39	0.01	55	3.31
8	3.36		24	2.49	40	0.01	56	0.01
9	0.75		25	2.49	41	3.31	57	1.43
10	3.31		26	1.25	42	3.31	58	1.34
11	3.31		27	1.25	43	3.31	59	2.5
12	PS(0-3.3)	DIGITAL OUTPUT	28	0	44	3.31	60	1.46
13	PS(0-3.3)	DIGITAL OUTPUT	29	0.01	45	3.31	61	CLK
14	PS(0-3.3)	DIGITAL OUTPUT	30	3.31	46	3.31	62	CLK
15	3.31		31	3.31	47	3.31	63	CLK
16	3.31		32	3.31	48	0.01	64	0.01

IC202							
1	3.31	9	3.31	17	3.31	25	3.31
2	3.31	10	3.31	18	3.31	26	3.31
3	3.31	11	3.31	19	3.31	27	3.31
4	3.31	12	3.31	20	3.31	28	0.01
5	3.31	13	3.31	21	3.31	29	3.31
6	3.31	14	3.31	22	3.31	30	3.31
7	3.31	15	3.31	23	3.31	31	3.31
8	3.31	16	3.31	24	0.01	32	3.31

IC801	
1	0
2	3.31
3	2.49
4	3.01
5	3.31

IC803	
1	4.96
2	5.02
3	0
4	3.32
5	1.89

IC804	
1	0
2	5.02
3	3.31

IC805	
1	0
2	3.31
3	2.5
4	2.78
5	3.31

	E	C	B
Q101	3.29	2.17	2.63
Q102	0	5.02	0.01
Q103	3.32	1.66	4.99
Q802	5.02	5	0.06
Q803	0.01	0.06	4.97

	1	2	3	4	5
Q804	NC	4.96	5.02	4.97	0.01

- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between GND
- Measuring Condition : at playing CD-DA

Description of IC Terminal

M30624FGGP : IC501

No.	Symbol	I/O	Terminal Description
1	NC	–	No connect terminal.
2	REMOCON DATA	I	Remote Control data input terminal.
3	NC	–	No connect terminal.
4	SFSY(DATA)	I	Data signal input terminal from MP3 μ-COM.
5	SBSY(CLK)	0	Data clock signal output terminal to MP3 μ-COM.
6	BYTE	–	GND connect terminal.
7	CNVSS		
8	NC	–	No connect terminal.
9			
10	$\overline{\text{RESET}}$	I	System RESET input terminal.
11	XOUT	0	Crystal connect terminal for main system clock OSC.
12	VSS	–	GND connect terminal.
13	XIN	I	Crystal connect terminal for main system clock OSC.
14	VCC	–	Power supply terminal.
15	NMI(PULL-UP)	–	Pull-up connect terminal.
16	8V-DET	I	8V detect signal input terminal.
17	ACC-DET	I	ACC detect signal input terminal.
18	BATT-DET	I	BATT detect signal input terminal.
19	NC	–	No connect terminal.
20	V-CONT(NC)		
21	NC		
22	BUZZER	0	BUZZER signal output terminal.
23	BUS IN	I	Data serial signal input terminal from Ai-NET BUS.
24	$\overline{\text{MP3 RST}}$	0	System RESET signal output terminal to MP3 μ-COM.
25	$\overline{\text{MP3 STBY}}$	0	Active stand-by request signal output terminal to MP3 μ-COM.
26	NC	–	No connect terminal.
27	BUS IN	I	Data serial signal input terminal from Ai-NET BUS.
28	BUS OUT	0	Data serial signal output terminal to Ai-NET BUS.
29	MP3 TxD	0	Command data output terminal to MP3 μ-COM.
30	MP3 RxD	I	Status data input terminal from MP3 μ-COM.
31	NC	–	No connect terminal.
32	CD IN-SW	I	DISC insert detect SW signal input terminal.
33	RDS TxD	0	Command data signal output terminal to RDS μ-COM.
34	RDS RxD	I	Status data input terminal from RDS μ-COM.
35	NC	–	No connect terminal.
36	LCD CE	0	Chip enable signal output terminal to LCD Driver.
37	LCD RST	0	RESET signal output terminal to LCD Driver.
38	LPF1	0	SUB.W ST/MONO switching control output terminal.
39	LPF2		
40	NOSE PWR	0	Power SW output terminal to around NOSE circuit.
41	LCD STB	0	Strobe signal output terminal to LCD Driver.
42	LCD DO	0	Serial data signal output terminal to LCD Driver.
43	LCD DI	I	Serial data signal input terminal from LCD Driver.
44	LCD CLK	0	Serial clock signal output terminal to LCD Driver.
45	ENCODER2	I	ENCODER2 input terminal.
46	ENCODER1	I	ENCODER1 input terminal.

No.	Symbol	I/O	Terminal Description
47	OUT REM(NC)	-	No connect terminal.
48	PWR IC ON	O	Power-IC stand-by control signal output terminal.
49	POWER CONT	O	Power control signal output terminal.
50	NC	-	No connect terminal.
51	A-MUTE	O	Audio MUTE signal output terminal.
52	IN-INT	I	Outer interrupt signal input terminal.
53	P-ANT	O	Outer P-ANT control signal output terminal.
54	WATCH DOG CLK	O	Pulse output terminal.
55	IN DIMMER	I	Outer DIMMER detect signal input terminal.
56	BL LED	O	LED control signal output terminal for LCD backlight.
57	60W CONT	O	60W AMP control signal output terminal.
58	ZERO DET	I	Obit MUTE signal input terminal from MP3 μ-COM.
59	IIC-DATA	I/O	Serial data signal input/output terminal for IIC system control.
60	VCC	-	Power supply terminal.
61	IIC-CLK	O	Clock signal output terminal for IIC system control.
62	VSS	-	GND connect terminal.
63	DIMMER CONT(NC)	-	No connect terminal.
64	NC		
65	DHE RESET	O	RESET signal output terminal to DHE-IC.
66	NC	-	No connect terminal.
≀			
70			
71	RDS FIN	I	Status data input terminal from RDS μ-COM.
72	CLCK	I	Sync. clock signal input terminal from MP3 μ-COM.
73	MP3 FIN	I	Data-IN signal input terminal from MP3 μ-COM.
74	MP3 FOUT	O	Data-OUT signal output terminal to MP3 μ-COM.
75	REG-RST	O	RESET signal output terminal to System Power-IC.
76	RDS RST(NC)	-	No connect terminal.
77	NC		
78	RDS FOUT	O	Data-OUT signal output terminal to RDS μ-COM.
79	RDS STBY	O	Stand-by signal output terminal to RDS μ-COM.
80	T-AMUTE	I	A-MUTE signal input terminal from RDS μ-COM.
81	DOOR LED	O	DOOR LED lighting control output terminal.
82	LIMIT SW-1(OPEN)	I	Open Limit SW signal input terminal.
83	LIMIT SW-2(CLOSE)	I	Close Limit SW signal input terminal.
84	MOTOR ON(NC)	-	No connect terminal.
85	MOTOR FOR	O	Active NOSE Motor forward driving signal output terminal.
86	MOTOR REV	O	Active NOSE Motor backward driving signal output terminal.
87	Hi-TEMP	I	CD mechanism temperature detect signal input terminal.
88	NC	-	No connect terminal.
89	AUDIO	I	A/D data input terminal from Audio Level signal.
90	AREA	I	Area/Function definition port.
91	T-SENS	I	60W temperature detect signal input terminal.
92	NC	-	No connect terminal.
93			
94	AVSS	-	GND connect terminal of A/D Converter.
95	NOSE DET	I	NOSE attached detect terminal.
96	VREF	-	Standard voltage input terminal of A/D Converter.
97	AVCC	-	Power supply input terminal of A/D Converter.

No.	Symbol	I/O	Terminal Description
98	NC	–	No connect terminal.
≀			
100			

D78F4216AGC : IC502

No.	Symbol	I/O	Terminal Description
1	IF MUTE	0	IF MUTE control terminal. (H:IF MUTE ON)
2	NC	–	No connect terminal.
3			
4	RDS-CONT	0	RDS data input prevention control terminal of adjoining station. (H:RDS OFF)
5	$\overline{\text{IF MUTE}}$(NC)	–	No connect terminal.
6	NC		
≀			
8			
9	VDD	–	Power supply terminal.
10	X2	–	Crystal OSC connect terminal for main system clock OSC. (12.288MHz)
11	X1		
12	VSS	–	GND connect terminal.
13	XT2(NC)	–	No connect terminal.
14	XT1(GND)	–	GND connect terminal.
15	$\overline{\text{RESET}}$	I	System reset input terminal.
16	BATT-DET	I	BATT compulsion stand-by signal input terminal from VDD IC.
17	STANDBY	I	Stand-by signal input terminal from Main μ-COM.
18	NC	–	No connect terminal.
19	IS BUS Fin	I	IS BUS frame signal input terminal.
20	NC	–	No connect terminal.
≀			
22			
23	AVDD	–	Analog power supply terminal of A/D converter.
24	AVREF0	I	Standard voltage input terminal of A/D converter.
25	S-METER	I	Signal-Meter input terminal.
26	MULTIPATH	I	Multipath input terminal of RDS Decoder.
27	ADJCH-DET	I	Adjoining station detect input terminal.
28	SSTOP	I	FM station detect signal input terminal.
29	AMST/MP	I	SEEK STOP detect input terminal at AM. (H:Station ON)
30	AFC	I	FM station detect signal input terminal.
31	NC(GND)	–	GND connect terminal.
32			
33	AVSS	–	GND terminal of A/D converter.
34	NC	–	No connect terminal.
35			
36	AVREF1	I	Standard voltage input terminal of D/A converter.
37	IS BUS RX	I	IS BUS receiving terminal.
38	IS BUS TX	0	IS BUS transmitting terminal.
39	IS BUS Fout	0	IS BUS frame signal output terminal.
40	MONITOR RXD	I	Command input terminal for RDS monitor (P/C). (Pull-up connect)
41	MONITOR TXD	0	Status output terminal for RDS monitor (P/C).

No.	Symbol	I/O	Terminal Description
42	NC	–	No connect terminal.
~			
47			
48	T-MUTE	O	MUTE signal output terminal to Main μ-COM.
49	NC	–	No connect terminal.
50			
51	MARKET1	I	Area set up terminal.
52	MARKET2		
53	MARKET3		
54	$\overline{\text{AUTO-ADJ}}$	I	Auto adjustment start signal terminal of FM/AM TUNER. (L : start)
55	NC	–	No connect terminal.
~			
71			
72	VSS	–	GND connect terminal.
73	NC	–	No connect terminal.
~			
80			
81	VDD	–	Power supply terminal.
82	NC	–	No connect terminal.
~			
91			
92	$\overline{\text{PAUSE}}$	I	Audio signal detect terminal. (L : Blank)
93	$\overline{\text{DAVN}}$	I	Data available input terminal of RDS Decoder.
94	TEST/VPP	–	GND connect terminal.
95	RDS SDA	I/O	Data input/output terminal to RDS Decoder.
96	RDS SCL	O	Clock output terminal to RDS Docoder.
97	IIC SCL	O	IIC clock output terminal to TUNER-IC(TDA7511).
98	IIC SDA	I/O	IIC data input/output terminal to TUNER-IC(TDA7511).
99	$\overline{\text{TUNER ON}}$(NC)	–	No connect terminal.
100	$\overline{\text{FM}}$/AM	O	FM/AM power supply switching terminal. (L:FM)

TMP87PM48U : IC104 (DP23S0C0)

No.	Symbol	I/O	Terminal Description
1	VSS	–	GND connect terminal.
2	XOUT	–	High-Frequency OSC connect terminal. (8MHz)
3	XIN		
4	/RST	I	RESET signal input terminal. (MCU RESET)
5	NC(GND)	–	GND connect terminal.
6			
7	TEST	–	TEST terminal. (GND connect)
8	/STBY	I	STBY signal input terminal.
9	NC(PULL-DOWN)	–	Pull-down connect terminal.
10	/REQ	I	REQ signal input terminal.
11	/FIN	I	FIN signal input terminal.
12	/FOUT	O	FOUT signal output terminal.
13	CDVCONT	O	Power supply control terminal for CD Servo system.
14	QDATAF	O	CD-TEXT data reading sync. signal output terminal.
15	/DR-MUTE	O	DR-MUTE control output terminal.

No.	Symbol	I/O	Terminal Description
16	NC(PULL-DOWN)	-	Pull-down connect terminal.
17	NC(GND)	-	GND connect terminal.
18	SCL	O	IIC BUS SCL output terminal.
19	SDA	I/O	IIC BUS SDA input/output terminal.
20	NC(GND)	-	GND connect terminal.
21	RX	I	UART signal input terminal.
22	TX	O	UART signal output terminal.
23	NC(GND)	-	GND connect terminal.
24			
25	MOTOR1	O	MOTOR1 control output terminal.
26	MOTOR2	O	MOTOR2 control output terminal.
27	NC(GND)	-	GND connect terminal.
~			
29			
30	VASS	-	GND terminal for analog standard voltage of A/D converter.
34	SI	O	DSP serial data output terminal.
31	VAREF	-	+5V terminal for analog standard voltage of A/D converter.
32	VDD	-	Power supply (+5V) terminal.
33	/SWA	I	SW-A signal input terminal.
34	/SWB	I	SW-B signal input terminal.
35	/SWC	I	SW-C signal input terminal.
36	/SWD	I	SW-D signal input terminal.
37	NC(GND)	-	GND connect terminal.
~			
39			
40	/TESTMODE	I	TEST Mode set up input terminal.
41	ZMUTEIN	I	Z-MUTE input terminal.
42	MUTE-O	O	MUTE request terminal.
43	NC(GND)	-	GND connect terminal.
44	SRVS-CK	O	Servo status clock terminal.
45	SRVS-DT	O	Servo status data terminal.
46	SRVS-LT	O	Servo status latch terminal.
47	NC(GND)	-	GND connect terminal.
48			
49	/PUINR	I	PU limit SW input terminal.
50	/CD-RESET	O	RESET control output terminal.
51	/CCE	O	CCE control output terminal.
52	/BUCK	O	BUCK control output terminal.
53	BUS3	I/O	BUS3 input/output terminal.
54	BUS2	I/O	BUS2 input/output terminal.
55	BUS1	I/O	BUS1 input/output terminal.
56	BUSO	I/O	BUSO input/output terminal.
57	/MP3-RESET	O	DSP RESET control output terminal.
58	MP3-STANDBY	O	STAND-BY control output terminal.
59	/SPL-STBY	O	STBY control output terminal to Sensorless Driver-IC.
60	NC(PULL-DOWN)	-	Pull-down connect terminal.
~			
63			
64	GVSW	O	CD-DA/RW detect output terminal. (H:CD-DA, L:RW)

Electrical Parts List

Capacitor : μF=microfarads,pF=picofarads

Abbreviations

RES.= Resistor
C.F.= Carbon Film
M.F.= Metal Film
M.O.= Metal OxideFilm
M.P.= Metal Plate
TR. = Transistor
TRANS.= Transformer
CP. = Chip

CAP.= Capacitor
ELY.= Electrolytic
CER.= Ceramic
MYL.= Mylar
TAN.= Tantalum
POLY.= Polystyrol
PP. = Polypropylene
PLT.= Polyethylene
PF. = Polyester Film

Symbol No.	Part No.	Description
Main P.W.Board		
IC's		
IC005	51T15132Y02	SAA6588T -SE9
IC201	51T15456Y01	TC74HC4066AFT-EL-SE5
IC202	51T35457Y02	TDA7402 -QT
IC203	51T45654Y01	TC94A04AFD -QT
IC204	51T93333F01	NJM2904M-TE3 -SE2
IC206	51T15420Y01	BA4560F-E2 -SE2
IC207	51T15420Y01	BA4560F-E2 -SE2
IC208	51T15420Y01	BA4560F-E2 -SE2
IC270	51T45330Y01	NJM2160AM-TE2 -SE6
IC301	51T35403Y01	TDA7560 -ZS
IC302	51T15426Y02	STK475-010 -IB
IC303	51T15420Y01	BA4560F-E2 -SE2
IC304	51T15420Y01	BA4560F-E2 -SE2
IC501	51T55350Y18	MTP,M30624FGGP
IC502	51T35566Y54	MTP,D78F4216AGC
IC504	51T93332F01	IC,NJM2903M-TE3 -SE2
IC505	51T25422Y02	TC7W04FK-TE85L -CP
IC506	51T25160Y01	M24C04-WMN6T -SE2
IC601	51T93532F05	TC4S01F-TE85L -CP
IC801	51T15720Y10	S-80930ANMP-T2 -CP
IC810	51T25448Y01	BA6219BFP-Y-E2 -SE9
IC811	51T45336Y01	L5952 -ZS
Transistors		
Q001	48T64222F01	TR ,UN2211 10-10 -TX
Q010	48T45594W16	TR,XN1A311-TX -CP
Q201	48T45594W08	TR ,XN1212 -TX-CP
Q202	48T64222F02	TR ,UN2212 22-22 -TX
Q321	48T25317Y01	TR,XN0F256-TX -CP
Q322	48T25317Y01	TR,XN0F256-TX -CP
Q323	48T25317Y01	TR,XN0F256-TX -CP
Q501	48T64221F13	TR,UN211H-TX -CP
Q502	48T64222F02	TR ,UN2212 22-22 -TX
Q503	48T52437F05	TR ,2SB709A-S /TX-CP
Q504	48T45594W16	TR,XN1A311-TX -CP
Q505	48T64221F02	TR ,UN2112 22-22 -TX
Q506	48T52438F04	TR ,2SD601A-S /TX-CP
Q507	48T64221F01	TR ,UN2111 10-10 -TX
Q508	48T64222F01	TR ,UN2211 10-10 -TX
Q509	48T64222F01	TR ,UN2211 10-10 -TX
Q510	48T52438F04	TR ,2SD601A-S /TX-CP
Q511	48T52438F04	TR ,2SD601A-S /TX-CP
Q601	48T64221F11	TR,UN211L-TX -CP
Q602	48T64222F02	TR ,UN2212 22-22 -TX
Q603	48T64222F02	TR ,UN2212 22-22 -TX
Q606	48T64222F01	TR ,UN2211 10-10 -TX
Q607	48T52437F05	TR ,2SB709A-S /TX-CP
Q645	48T64222F01	TR ,UN2211 10-10 -TX
Q803	48T45594W12	TR ,XN1A312 -TX-CP
Q804	48T45594W16	TR,XN1A311-TX -CP
Q805	48T45594W12	TR ,XN1A312 -TX-CP
Q806	48T93828F04	TR,2SD1994A-S-TA -RD
Q809	48T69176F02	TR ,2SC3421-Y
Q812	48T64221F13	TR,UN211H-TX -CP
Q813	48T52437F05	TR ,2SB709A-S /TX-CP
Q816	48T84336F03	TR,2SB1243-Q-TV2 -RD
Q819	48T64222F12	TR,UN221L-TX -CP
Q820	48T64221F13	TR,UN211H-TX -CP
Q821	48T64222F02	TR ,UN2212 22-22 -TX
Q824	48T64222F02	TR ,UN2212 22-22 -TX
Q825	48T45594W12	TR ,XN1A312 -TX-CP
Q826	48T64222F01	TR ,UN2211 10-10 -TX
Q827	48T45594W12	TR ,XN1A312 -TX-CP
Q828	48T45594W12	TR ,XN1A312 -TX-CP
Q872	48T93828F04	TR,2SD1994A-S-TA -RD
Diodes		
D001	48T85357W01	DIO,1PS226 -CP
D201	48T81063F01	DIO,CP.MA159 / TX-CP
D210	48T25665Y01	DIO,1SS355-TE17 -CP
D301	48T02161K01	DIO,SHT SS14 -E1
D302	48T02161K01	DIO,SHT SS14 -E1
D303	48T02161K01	DIO,SHT SS14 -E1
D304	48T02161K01	DIO,SHT SS14 -E1
D305	48T02161K01	DIO,SHT SS14 -E1
D306	48T02161K01	DIO,SHT SS14 -E1
D307	48T02161K01	DIO,SHT SS14 -E1

Symbol No.	Part No.	Description
D308	48T02161K01	DIO,SHT SS14 -E1
D321	48T45254W02	DIO,SI MA142WA-TX-CP
D351	48T45254W02	DIO,SI MA142WA-TX-CP
D352	48T45254W02	DIO,SI MA142WA-TX-CP
D501	48T44813F03	DIO,MA165 -R5
D502	48T25665Y01	DIO,1SS355-TE17 -CP
D503	48T25665Y01	DIO,1SS355-TE17 -CP
D504	48T25665Y01	DIO,1SS355-TE17 -CP
D505	48T25665Y01	DIO,1SS355-TE17 -CP
D506	48T25651W02	DIO,MA152WK-TX -CP
D507	48T25665Y01	DIO,1SS355-TE17 -CP
D508	48T25665Y01	DIO,1SS355-TE17 -CP
D509	48T25651W01	DIO,CP MA152WA
D510	48T25651W02	DIO,MA152WK-TX -CP
D511	48T25665Y01	DIO,1SS355-TE17 -CP
D512	48T25665Y01	DIO,1SS355-TE17 -CP
D513	48T25665Y01	DIO,1SS355-TE17 -CP
D514	48T25665Y01	DIO,1SS355-TE17 -CP
D515	48T25665Y01	DIO,1SS355-TE17 -CP
D516	48T25665Y01	DIO,1SS355-TE17 -CP
D517	48T25665Y01	DIO,1SS355-TE17 -CP
D601	48T25651W02	DIO,MA152WK-TX -CP
D602	48T25651W02	DIO,MA152WK-TX -CP
D801	48T85268W01	DIO,P300G -
D802	48T25665Y01	DIO,1SS355-TE17 -CP
D803	48T25593Y01	DIO,S1G-6601 -E1
D804	48T25665Y01	DIO,1SS355-TE17 -CP
D805	48T25593Y01	DIO,S1G-6601 -E1
D806	48T85357W01	DIO,1PS226 -CP
D810	48T25593Y01	DIO,S1G-6601 -E1
D811	48T81063F01	DIO,CP.MA159 / TX-CP
D824	48T25665Y01	DIO,1SS355-TE17 -CP
ZD501	48T25766W09	DIO,ZEN.HZS 6C3L -R5
ZD801	48T25766W14	DIO,ZEN.HZS 7B2L -R5
ZD802	48T25766W38	DIO,ZEN.HZS12A3L -R5
ZD803	48T25766W24	DIO,ZEN.HZS 9C1L -R5
ZD804	48T25064Y02	DIO,ZEN ZSH5MA27A-ED
ZD806	48T62934F14	DIO,ZEN.RD4.3MB3 -CP

Filters

L010	91T65112W06	EMI,BK2125HM102 -CP
L011	91T65112W06	EMI,BK2125HM102 -CP
L012	91T65112W06	EMI,BK2125HM102 -CP
L201	91T65112W06	EMI,BK2125HM102 -CP
L202	91T65112W06	EMI,BK2125HM102 -CP
L203	91T65112W06	EMI,BK2125HM102 -CP
L204	91T65112W06	EMI,BK2125HM102 -CP

Symbol No.	Part No.	Description
L205	91T65112W06	EMI,BK2125HM102 -CP
L206	91T65112W06	EMI,BK2125HM102 -CP
L502	91T65112W06	EMI,BK2125HM102 -CP
L503	91T65112W06	EMI,BK2125HM102 -CP
L504	91T65112W06	EMI,BK2125HM102 -CP
L801	91T65112W01	EMI,BK2125HS121 -CP
CF001	91T75257W02	LPF,LPF11830KH-3C-DB

Coils

L001	24T25164Y21	IND,FSLM2520 4R7J-CP
L002	24T16403W29	COI,IND.15R-M -CP
L003	24T35286Y01	IND,MG56 523J -DB
L013	24T25164Y21	IND,FSLM2520 4R7J-CP

Crystals

XL001	91T25806W18	XTL,4.332M -AT51-TP
XL201	91T55274Y01	XTL,NX5032GA 33.8-E2
XL501	91T55217Y04	XTL,NX8045GB 16.0-E5
XL503	91T55217Y03	XTL,NX8045GB 12.2-E5

Thermistors

TH501	48T25250Y01	TMT,ERTJ1VV104J -CP
TH502	48T25250Y01	TMT,ERTJ1VV104J -CP

LED's

LD601	48T65477W05	LED,SML-010DTT87 -CP
LD602	48T65477W05	LED,SML-010DTT87 -CP

Buzzer

BZ601	50T85541W01	BUZZER,CD11PA-XZ -H5

Switch

SW332	40T45282W02	SW,SLIDE SLD-42-508X (Ai-NET·NORM/(EQ/DIV))

Symbol No.	Part No.	Description
Surge Protector		
SA001	48T81048F02	PTT,DSP-201M -RD
Capacitors		
C004	08S65128F78	CAP,CER.223K-B1H -CP
C005	08S82122F61	CAP,CER.102J-CH1H-CP
C006	08S65128F78	CAP,CER.223K-B1H -CP
C007	08S65128F78	CAP,CER.223K-B1H -CP
C008	08S45676W73	CAP,CER.103K-B1H -CP
C009	08S45676W73	CAP,CER.103K-B1H -CP
C010	08S35374W01	CAP,CER 104K-B1E-CP
C013	08S65128F71	CAP,CER.153K-B1H -CP
C016	08S45676W65	CAP,CER.222K-B1H -CP
C017	08S65128F78	CAP,CER.223K-B1H -CP
C018	08S35374W01	CAP,CER 104K-B1E-CP
C019	08S45677W36	CAP,CER.101J-CH1H-CP
C020	08S45676W73	CAP,CER.103K-B1H -CP
C021	08S45677W46	CAP,CER 271J-CH1H-CP
C023	08S45677W48	CAP,CER.331J-CH1H-CP
C024	08S65128F90	CAP,CER 473K-B1H -CP
C025	08S45677W22	CAP,CER.27RJ-CH1H-CP
C026	08S45677W22	CAP,CER.27RJ-CH1H-CP
C028	08S45676W65	CAP,CER.222K-B1H -CP
C029	08S35374W01	CAP,CER 104K-B1E-CP
C030	08S45677W54	CAP,CER 561J-CH1H-CP
C102	08S45676W73	CAP,CER.103K-B1H -CP
C103	08S45676W73	CAP,CER.103K-B1H -CP
C104	08S65128F78	CAP,CER.223K-B1H -CP
C105	08S65128F78	CAP,CER.223K-B1H -CP
C111	08S45676W73	CAP,CER.103K-B1H -CP
C201	08S35350Y04	CAP,CER 105K-B1C -CP
C202	08S35350Y04	CAP,CER 105K-B1C -CP
C203	08S35350Y04	CAP,CER 105K-B1C -CP
C204	08S35350Y04	CAP,CER 105K-B1C -CP
C205	08S35350Y04	CAP,CER 105K-B1C -CP
C206	08S35350Y04	CAP,CER 105K-B1C -CP
C207	08S45676W65	CAP,CER.222K-B1H -CP
C208	08S35374W01	CAP,CER 104K-B1E-CP
C209	08S82122F61	CAP,CER.102J-CH1H-CP
C210	08S45676W84	CAP,CER 683K-B1C -CP
C212	08S35374W01	CAP,CER 104K-B1E-CP
C213	08S35350Y04	CAP,CER 105K-B1C -CP
C214	08S35350Y04	CAP,CER 105K-B1C -CP
C215	08S45676W65	CAP,CER.222K-B1H -CP
C216	08S35349Y13	CAP,CER 684K-B1A -CP
C217	08S35374W01	CAP,CER 104K-B1E-CP

Symbol No.	Part No.	Description
C218	08S45677W25	CAP,CER 36RJ-CH1H-CP
C219	08S35374W01	CAP,CER 104K-B1E-CP
C220	08S35374W01	CAP,CER 104K-B1E-CP
C221	08S35350Y04	CAP,CER 105K-B1C -CP
C222	08S35350Y04	CAP,CER 105K-B1C -CP
C223	08S35374W01	CAP,CER 104K-B1E-CP
C224	08S45677W14	CAP,CER.12RJ-CH1H-CP
C225	08S45677W14	CAP,CER.12RJ-CH1H-CP
C226	08S35374W01	CAP,CER 104K-B1E-CP
C227	08S45677W34	CAP,CER.82RJ-CH1H-CP
C228	08S45677W49	CAP,CER 361J-CH1H-CP
C229	08S45677W49	CAP,CER 361J-CH1H-CP
C230	08S45677W49	CAP,CER 361J-CH1H-CP
C231	08S45677W44	CAP,CER.221J-CH1H-CP
C232	08S45677W44	CAP,CER.221J-CH1H-CP
C233	08S45677W34	CAP,CER.82RJ-CH1H-CP
C234	08S45677W49	CAP,CER 361J-CH1H-CP
C235	08S45677W49	CAP,CER 361J-CH1H-CP
C236	08S45677W34	CAP,CER.82RJ-CH1H-CP
C237	08S45677W49	CAP,CER 361J-CH1H-CP
C238	08S45677W44	CAP,CER.221J-CH1H-CP
C239	08S45677W49	CAP,CER 361J-CH1H-CP
C240	08S45677W44	CAP,CER.221J-CH1H-CP
C241	08S45677W34	CAP,CER.82RJ-CH1H-CP
C242	08S45677W49	CAP,CER 361J-CH1H-CP
C243	08S35349Y08	CAP,CER 102K-B1H -CP
C244	08S45677W36	CAP,CER.101J-CH1H-CP
C246	08S35374W01	CAP,CER 104K-B1E-CP
C247	08S35350Y04	CAP,CER 105K-B1C -CP
C248	08S35350Y04	CAP,CER 105K-B1C -CP
C249	08S35350Y04	CAP,CER 105K-B1C -CP
C250	08S35350Y04	CAP,CER 105K-B1C -CP
C253	08S35349Y08	CAP,CER 102K-B1H -CP
C301	08S60102F48	CAP,CER 105K-B1E -CP
C302	08S60102F48	CAP,CER 105K-B1E -CP
C303	08S60102F48	CAP,CER 105K-B1E -CP
C304	08S60102F48	CAP,CER 105K-B1E -CP
C305	08S60102F48	CAP,CER 105K-B1E -CP
C306	08S65128F90	CAP,CER 473K-B1H -CP
C307	08T81833F11	CAP,CER 225K-B1C -CP
C308	08S65128F90	CAP,CER 473K-B1H -CP
C309	08S82122F61	CAP,CER.102J-CH1H-CP
C311	08S45676W63	CAP,CER 152K-B1H -CP
C312	08S45676W63	CAP,CER 152K-B1H -CP
C313	08S45677W20	CAP,CER.22RJ-CH1H-CP
C314	08S45677W20	CAP,CER.22RJ-CH1H-CP
C331	08T25628Y01	CAP,TF 334M-1C -CP
C332	08T25628Y01	CAP,TF 334M-1C -CP
C333	08T25628Y01	CAP,TF 334M-1C -CP

Symbol No.	Part No.	Description
C334	08T25628Y01	CAP,TF 334M-1C -CP
C501	08S45677W12	CAP,CER.10RD-CH1H-CP
C502	08S45677W12	CAP,CER.10RD-CH1H-CP
C503	08S65128F78	CAP,CER.223K-B1H -CP
C504	08S45677W12	CAP,CER.10RD-CH1H-CP
C505	08S45677W12	CAP,CER.10RD-CH1H-CP
C506	08S45677W36	CAP,CER.101J-CH1H-CP
C507	08S45676W85	CAP,CER 104K-B1C -CP
C509	08S45677W22	CAP,CER.27RJ-CH1H-CP
C510	08S65128F78	CAP,CER.223K-B1H -CP
C513	08S65128F78	CAP,CER.223K-B1H -CP
C514	08S35349Y08	CAP,CER 102K-B1H -CP
C515	08S65128F78	CAP,CER.223K-B1H -CP
C517	08S35349Y08	CAP,CER 102K-B1H -CP
C518	08S35349Y08	CAP,CER 102K-B1H -CP
C519	08S35374W01	CAP,CER 104K-B1E-CP
C520	08S35349Y12	CAP,CER 105K-B0J -CP
C521	08S35349Y12	CAP,CER 105K-B0J -CP
C523	08S35349Y08	CAP,CER 102K-B1H -CP
C601	08S65128F78	CAP,CER.223K-B1H -CP
C602	08S35374W01	CAP,CER 104K-B1E-CP
C603	08S45676W65	CAP,CER.222K-B1H -CP
C604	08S45677W36	CAP,CER.101J-CH1H-CP
C605	08S65128F78	CAP,CER.223K-B1H -CP
C606	08S65128F78	CAP,CER.223K-B1H -CP
C607	08S65128F78	CAP,CER.223K-B1H -CP
C801	08S65128F78	CAP,CER.223K-B1H -CP
C802	08S35374W01	CAP,CER 104K-B1E-CP
C803	08S65128F78	CAP,CER.223K-B1H -CP
C804	08S65128F78	CAP,CER.223K-B1H -CP
C805	08S65128F78	CAP,CER.223K-B1H -CP
C806	08S35374W01	CAP,CER 104K-B1E-CP
C807	08S65128F90	CAP,CER 473K-B1H -CP
C809	08S65128F78	CAP,CER.223K-B1H -CP
C810	08S65128F78	CAP,CER.223K-B1H -CP
C811	08S65128F78	CAP,CER.223K-B1H -CP
C813	08S35374W01	CAP,CER 104K-B1E-CP
C814	08S35374W01	CAP,CER 104K-B1E-CP
C821	08S82122F61	CAP,CER.102J-CH1H-CP
C830	08S65128F78	CAP,CER.223K-B1H -CP
C831	08T55390W34	CAP,TF 274J-1H -R5
E001	23S75373W03	CAP,ELY 22R-1C -R2
E002	23S75373W03	CAP,ELY 22R-1C -R2
E003	23S75373W03	CAP,ELY 22R-1C -R2
E009	23S75372W04	CAP,ELY 10R-1C -R2
E010	23S75373W14	CAP,ELY 2R2-1H -R2
E102	23S75372W03	CAP,ELY 221-1A -H2
E104	23T00134L17	CAP,SME.101-1A +
E201	23S65134W11	CAP,ELY 22R-0J(4)-E2

Symbol No.	Part No.	Description
E202	23S75373W13	CAP,ELY 1R0-1H -R2
E203	23S65134W11	CAP,ELY 22R-0J(4)-E2
E204	23S65134W72	CAP,ELY 3R3-1H(4)-E2
E206	23S65134W12	CAP,ELY 47R-0J(5)-E3
E207	23S75373W13	CAP,ELY 1R0-1H -R2
E208	23S75373W03	CAP,ELY 22R-1C -R2
E209	23S65134W12	CAP,ELY 47R-0J(5)-E3
E210	23S65134W72	CAP,ELY 3R3-1H(4)-E2
E211	23S65134W72	CAP,ELY 3R3-1H(4)-E2
E212	23S65134W72	CAP,ELY 3R3-1H(4)-E2
E213	23S75372W03	CAP,ELY 221-1A -H2
E214	23S65134W12	CAP,ELY 47R-0J(5)-E3
E215	23S75373W09	CAP,ELY R22-1H -R2
E216	23S75373W02	CAP,ELY 10R-1C -R2
E217	23S65134W41	CAP,ELY 4R7-1E(3)-E2
E218	23S65134W41	CAP,ELY 4R7-1E(3)-E2
E220	23S65134W12	CAP,ELY 47R-0J(5)-E3
E221	23S65134W12	CAP,ELY 47R-0J(5)-E3
E222	23S65134W12	CAP,ELY 47R-0J(5)-E3
E223	23S75372W09	CAP,ELY 4R7-1V -R2
E224	23S75372W15	CAP,ELY 1R0-1H -R2
E225	23S75372W09	CAP,ELY 4R7-1V -R2
E226	23S75372W09	CAP,ELY 4R7-1V -R2
E227	23S75372W15	CAP,ELY 1R0-1H -R2
E228	23S75372W09	CAP,ELY 4R7-1V -R2
E232	23S75372W15	CAP,ELY 1R0-1H -R2
E233	23S75372W02	CAP,ELY 101-1A -R2
E301	23S75373W02	CAP,ELY 10R-1C -R2
E302	23S75373W13	CAP,ELY 1R0-1H -R2
E303	23S75373W02	CAP,ELY 10R-1C -R2
E304	23S75373W13	CAP,ELY 1R0-1H -R2
E305	23S95415W17	CAP,ELY 1R0-1H -R2
E306	23S95415W19	CAP,ELY 3R3-1H -R2
E307	23S75373W05	CAP,ELY 47R-1C -R2
E308	23T75346W04	CAP,X-PRO 252-1D +
E309	23T25139Y03	CAP,PW 471-1E +
E310	23T25139Y03	CAP,PW 471-1E +
E311	23S75373W02	CAP,ELY 10R-1C -R2
E312	23S75373W02	CAP,ELY 10R-1C -R2
E313	23S75372W04	CAP,ELY 10R-1C -R2
E314	23T75346W03	CAP,X-PRO 332-1C +
E315	23T95564W41	CAP,FC 471-1C-G -EA
E316	23S75373W07	CAP,ELY 4R7-1V -R2
E317	23S75373W07	CAP,ELY 4R7-1V -R2
E318	23S75373W03	CAP,ELY 22R-1C -R2
E319	23S75373W03	CAP,ELY 22R-1C -R2
E320	23S75373W13	CAP,ELY 1R0-1H -R2
E321	23S75373W02	CAP,ELY 10R-1C -R2
E322	23S75373W02	CAP,ELY 10R-1C -R2

Symbol No.	Part No.	Description
E323	23S75373W06	CAP, ELY 101-1C -R2
E324	23S75373W06	CAP, ELY 101-1C -R2
E351	23S65134W31	CAP, ELY 10R-1C(4)-E2
E352	23S65134W31	CAP, ELY 10R-1C(4)-E2
E353	23S75373W02	CAP, ELY 10R-1C -R2
E354	23S75373W02	CAP, ELY 10R-1C -R2
E501	23S75372W03	CAP, ELY 221-1A -H2
E502	23S75372W03	CAP, ELY 221-1A -H2
E504	23S75372W05	CAP, ELY 22R-1C -R2
E505	23S75373W03	CAP, ELY 22R-1C -R2
E506	23S65134W31	CAP, ELY 10R-1C(4)-E2
E507	23S65134W21	CAP, ELY 33R-1A(5)-E3
E508	23S65134W11	CAP, ELY 22R-0J(4)-E2
E509	23S65134W11	CAP, ELY 22R-0J(4)-E2
E510	23S65134W12	CAP, ELY 47R-0J(5)-E3
E601	23S95415W03	CAP, ELY 10R-1C -R2
E802	23S95415W06	CAP, ELY 101-1C -R2
E803	23S95415W06	CAP, ELY 101-1C -R2
E804	23S95415W02	CAP, ELY 471-1A -R2
E805	23S75373W15	CAP, ELY 3R3-1H -R2
E806	23S75373W05	CAP, ELY 47R-1C -R2
E807	23S75373W06	CAP, ELY 101-1C -R2
E808	23S95415W05	CAP, ELY 47R-1C -R2
E809	23S75373W06	CAP, ELY 101-1C -R2
E810	23S75373W05	CAP, ELY 47R-1C -R2
E812	23S55044Y01	CAP, ELY 471-1C -R3
E813	23S75373W06	CAP, ELY 101-1C -R2
E814	23T45365W03	CAP, SME 221-1A -R2
E815	23S75373W13	CAP, ELY 1R0-1H -R2
E816	23S75372W03	CAP, ELY 221-1A -H2
E817	23S75373W02	CAP, ELY 10R-1C -R2
E823	23S75373W02	CAP, ELY 10R-1C -R2
E824	23T55378W01	CAP, KMG. 221-1A -R2
R553	08S35349Y08	CAP, CER 102K-B1H -CP

Resistors

Symbol No.	Part No.	Description
C141	06S55364Y39	RES, RK JUMPER 1/8-CP
C142	06S55364Y39	RES, RK JUMPER 1/8-CP
L501	06S55364Y39	RES, RK JUMPER 1/8-CP
L806	06S55362Y39	RES, RK JUMPER 1/4-CP
L807	06S55362Y39	RES, RK JUMPER 1/4-CP
R001	06S55361Y17	RES, RK 10RJ 1/4 -CP
R002	06S55361Y49	RES, RK 221J 1/4 -CP
R003	06S55365Y65	RES, RK 102J 1/10 -CP
R004	06S55365Y65	RES, RK 102J 1/10 -CP
R005	06S55365Y97	RES, RK 223J 1/10 -CP
R006	06S55365Y97	RES, RK 223J 1/10 -CP

Symbol No.	Part No.	Description
R009	06S55366Y02	RES, RK 333J 1/10 -CP
R010	06S55366Y39	RES, RK JUMPER1/10-CP
R011	06S55365Y97	RES, RK 223J 1/10 -CP
R012	06S55366Y18	RES, RK 154J 1/10 -CP
R013	06S55365Y89	RES, RK 103J 1/10 -CP
R014	06S55365Y89	RES, RK 103J 1/10 -CP
R015	06S55366Y14	RES, RK 104J 1/10 -CP
R016	06S55364Y39	RES, RK JUMPER 1/8-CP
R019	06S55366Y39	RES, RK JUMPER1/10-CP
R031	06S55362Y39	RES, RK JUMPER 1/4-CP
R032	06S55364Y39	RES, RK JUMPER 1/8-CP
R033	06S55364Y39	RES, RK JUMPER 1/8-CP
R034	06S55365Y65	RES, RK 102J 1/10 -CP
R035	06S55366Y39	RES, RK JUMPER1/10-CP
R036	06S55365Y51	RES, RK 271J 1/10 -CP
R037	06S55365Y51	RES, RK 271J 1/10 -CP
R038	06S55365Y65	RES, RK 102J 1/10 -CP
R040	06S55365Y81	RES, RK 472J 1/10 -CP
R041	06S55366Y30	RES, RK 474J 1/10 -CP
R042	06S55365Y65	RES, RK 102J 1/10 -CP
R103	06S55366Y35	RES, RK 754J 1/10 -CP
R105	06S55362Y39	RES, RK JUMPER 1/4-CP
R143	06S55366Y39	RES, RK JUMPER1/10-CP
R144	06S55366Y39	RES, RK JUMPER1/10-CP
R175	06S55366Y37	RES, RK 914J 1/10 -CP
R201	06S55365Y98	RES, RK 243J 1/10 -CP
R204	06S55365Y73	RES, RK 222J 1/10 -CP
R205	06S55365Y53	RES, RK 331J 1/10 -CP
R206	06S55365Y57	RES, RK 471J 1/10 -CP
R207	06S55365Y53	RES, RK 331J 1/10 -CP
R208	06S55365Y57	RES, RK 471J 1/10 -CP
R209	06S55366Y06	RES, RK 473J 1/10 -CP
R210	06S55366Y06	RES, RK 473J 1/10 -CP
R211	06S55366Y39	RES, RK JUMPER1/10-CP
R212	06S55365Y50	RES, RK 241J 1/10 -CP
R213	06S55365Y65	RES, RK 102J 1/10 -CP
R214	06S55365Y50	RES, RK 241J 1/10 -CP
R215	06S55366Y38	RES, RK 105J 1/10 -CP
R216	06S55365Y89	RES, RK 103J 1/10 -CP
R217	06S55366Y39	RES, RK JUMPER1/10-CP
R218	06S55365Y91	RES, RK 123J 1/10 -CP
R219	06S55366Y20	RES, RK 184J 1/10 -CP
R220	06S55365Y89	RES, RK 103J 1/10 -CP
R221	06S55365Y97	RES, RK 223J 1/10 -CP
R222	06S55365Y66	RES, RK 112J 1/10 -CP
R223	06S55365Y66	RES, RK 112J 1/10 -CP
R225	06S55366Y36	RES, RK 824J 1/10 -CP
R226	06S55365Y86	RES, RK 752J 1/10 -CP
R227	06S55365Y95	RES, RK 183J 1/10 -CP

Symbol No.	Part No.	Description
R228	06S55366Y14	RES,RK 104J 1/10 -CP
R229	06S55366Y14	RES,RK 104J 1/10 -CP
R230	06S55366Y30	RES,RK 474J 1/10 -CP
R231	06S55365Y97	RES,RK 223J 1/10 -CP
R232	06S55365Y89	RES,RK 103J 1/10 -CP
R233	06S55365Y86	RES,RK 752J 1/10 -CP
R234	06S55365Y95	RES,RK 183J 1/10 -CP
R235	06S55365Y97	RES,RK 223J 1/10 -CP
R236	06S55365Y89	RES,RK 103J 1/10 -CP
R237	06S55365Y89	RES,RK 103J 1/10 -CP
R238	06S55365Y86	RES,RK 752J 1/10 -CP
R239	06S55365Y95	RES,RK 183J 1/10 -CP
R240	06S55365Y89	RES,RK 103J 1/10 -CP
R241	06S55366Y14	RES,RK 104J 1/10 -CP
R242	06S55365Y97	RES,RK 223J 1/10 -CP
R243	06S55366Y14	RES,RK 104J 1/10 -CP
R244	06S55365Y89	RES,RK 103J 1/10 -CP
R245	06S55365Y86	RES,RK 752J 1/10 -CP
R246	06S55365Y95	RES,RK 183J 1/10 -CP
R247	06S55365Y97	RES,RK 223J 1/10 -CP
R248	06S55365Y89	RES,RK 103J 1/10 -CP
R250	06S55365Y66	RES,RK 112J 1/10 -CP
R251	06S55365Y63	RES,RK 821J 1/10 -CP
R252	06S55365Y49	RES,RK 221J 1/10 -CP
R256	06S55366Y26	RES,RK 334J 1/10 -CP
R257	06S55366Y02	RES,RK 333J 1/10 -CP
R301	06S55365Y89	RES,RK 103J 1/10 -CP
R302	06S55362Y23	RES,RK 244J 1/4 -CP
R304	06S55362Y27	RES,RK 364J 1/4 -CP
R306	06S55365Y74	RES,RK 242J 1/10 -CP
R307	06S55365Y74	RES,RK 242J 1/10 -CP
R309	06S55365Y74	RES,RK 242J 1/10 -CP
R311	06S55365Y98	RES,RK 243J 1/10 -CP
R312	06S55365Y98	RES,RK 243J 1/10 -CP
R313	06S55366Y03	RES,RK 363J 1/10 -CP
R314	06S55366Y03	RES,RK 363J 1/10 -CP
R315	06S55365Y74	RES,RK 242J 1/10 -CP
R317	06S55362Y36	RES,RK 824J 1/4 -CP
R321	06S55366Y06	RES,RK 473J 1/10 -CP
R322	06S55366Y06	RES,RK 473J 1/10 -CP
R323	06S55363Y49	RES,RK 221J 1/8 -CP
R324	06S55363Y49	RES,RK 221J 1/8 -CP
R325	06S55363Y41	RES,RK 101J 1/8 -CP
R326	06S55363Y41	RES,RK 101J 1/8 -CP
R351	06S55366Y06	RES,RK 473J 1/10 -CP
R352	06S55366Y06	RES,RK 473J 1/10 -CP
R353	06S55363Y48	RES,RK 201J 1/8 -CP
R354	06S55363Y48	RES,RK 201J 1/8 -CP
R355	06S55363Y41	RES,RK 101J 1/8 -CP

Symbol No.	Part No.	Description
R356	06S55363Y41	RES,RK 101J 1/8 -CP
R363	06S55366Y06	RES,RK 473J 1/10 -CP
R364	06S55366Y06	RES,RK 473J 1/10 -CP
R365	06S55363Y48	RES,RK 201J 1/8 -CP
R367	06S55363Y41	RES,RK 101J 1/8 -CP
R368	06S55363Y48	RES,RK 201J 1/8 -CP
R370	06S55363Y41	RES,RK 101J 1/8 -CP
R371	06S55365Y83	RES,RK 562J 1/10 -CP
R372	06S55365Y83	RES,RK 562J 1/10 -CP
R373	06S55365Y83	RES,RK 562J 1/10 -CP
R374	06S55365Y83	RES,RK 562J 1/10 -CP
R375	06S55365Y83	RES,RK 562J 1/10 -CP
R376	06S55365Y83	RES,RK 562J 1/10 -CP
R385	06S55365Y53	RES,RK 331J 1/10 -CP
R386	06S55365Y53	RES,RK 331J 1/10 -CP
R389	06S55365Y53	RES,RK 331J 1/10 -CP
R390	06S55365Y53	RES,RK 331J 1/10 -CP
R500	06S55363Y65	RES,RK 102J 1/8 -CP
R501	06S55363Y65	RES,RK 102J 1/8 -CP
R502	06S55363Y65	RES,RK 102J 1/8 -CP
R503	06S55363Y65	RES,RK 102J 1/8 -CP
R504	06S55363Y65	RES,RK 102J 1/8 -CP
R505	06S55363Y65	RES,RK 102J 1/8 -CP
R506	06S55363Y65	RES,RK 102J 1/8 -CP
R507	06S55363Y65	RES,RK 102J 1/8 -CP
R508	06S55365Y89	RES,RK 103J 1/10 -CP
R509	06S55366Y35	RES,RK 754J 1/10 -CP
R510	06S55365Y89	RES,RK 103J 1/10 -CP
R511	06S55363Y65	RES,RK 102J 1/8 -CP
R512	06S55365Y85	RES,RK 682J 1/10 -CP
R513	06S55363Y89	RES,RK 103J 1/8 -CP
R514	06S55365Y81	RES,RK 472J 1/10 -CP
R515	06S55365Y67	RES,RK 122J 1/10 -CP
R516	06S55365Y85	RES,RK 682J 1/10 -CP
R517	06S55365Y89	RES,RK 103J 1/10 -CP
R518	06S55365Y89	RES,RK 103J 1/10 -CP
R519	06S55361Y17	RES,RK 10RJ 1/4 -CP
R520	06S55365Y73	RES,RK 222J 1/10 -CP
R521	06S55365Y69	RES,RK 152J 1/10 -CP
R522	06S55361Y31	RES,RK 39RJ 1/4 -CP
R523	06S55361Y31	RES,RK 39RJ 1/4 -CP
R524	06S55361Y31	RES,RK 39RJ 1/4 -CP
R525	06S55361Y31	RES,RK 39RJ 1/4 -CP
R526	06S55365Y89	RES,RK 103J 1/10 -CP
R529	06S55365Y97	RES,RK 223J 1/10 -CP
R530	06S55365Y97	RES,RK 223J 1/10 -CP
R533	06S55365Y65	RES,RK 102J 1/10 -CP
R535	06S55365Y41	RES,RK 101J 1/10 -CP
R536	06S55365Y89	RES,RK 103J 1/10 -CP

Symbol No.	Part No.	Description
R538	06S55365Y91	RES,RK 123J 1/10 -CP
R539	06S55365Y65	RES,RK 102J 1/10 -CP
R540	06S55365Y65	RES,RK 102J 1/10 -CP
R541	06S55365Y65	RES,RK 102J 1/10 -CP
R542	06S55366Y30	RES,RK 474J 1/10 -CP
R543	06S55366Y06	RES,RK 473J 1/10 -CP
R544	06S55366Y06	RES,RK 473J 1/10 -CP
R546	06S55365Y65	RES,RK 102J 1/10 -CP
R547	06S55365Y65	RES,RK 102J 1/10 -CP
R548	06S55365Y65	RES,RK 102J 1/10 -CP
R551	06S55365Y41	RES,RK 101J 1/10 -CP
R552	06S55366Y39	RES,RK JUMPER1/10-CP
R554	06S55365Y65	RES,RK 102J 1/10 -CP
R555	06S55365Y65	RES,RK 102J 1/10 -CP
R556	06S55365Y65	RES,RK 102J 1/10 -CP
R557	06S55365Y65	RES,RK 102J 1/10 -CP
R558	06S55365Y89	RES,RK 103J 1/10 -CP
R559	06S55363Y89	RES,RK 103J 1/8 -CP
R560	06S55363Y97	RES,RK 223J 1/8 -CP
R561	06S55365Y65	RES,RK 102J 1/10 -CP
R562	06S55365Y89	RES,RK 103J 1/10 -CP
R563	06S55365Y65	RES,RK 102J 1/10 -CP
R565	06S55366Y06	RES,RK 473J 1/10 -CP
R566	06S55366Y39	RES,RK JUMPER1/10-CP
R567	06S55365Y65	RES,RK 102J 1/10 -CP
R568	06S55365Y65	RES,RK 102J 1/10 -CP
R569	06S55365Y65	RES,RK 102J 1/10 -CP
R573	06S55365Y65	RES,RK 102J 1/10 -CP
R574	06S55365Y89	RES,RK 103J 1/10 -CP
R575	06S55365Y83	RES,RK 562J 1/10 -CP
R576	06S55365Y57	RES,RK 471J 1/10 -CP
R577	06S55365Y53	RES,RK 331J 1/10 -CP
R578	06S55361Y49	RES,RK 221J 1/4 -CP
R579	06S55365Y65	RES,RK 102J 1/10 -CP
R580	06S55365Y65	RES,RK 102J 1/10 -CP
R581	06S15593Y59	RES,RK 272F 1/10 -CP
R582	06S15593Y53	RES,RK 152F 1/10 -CP
R583	06S15593Y55	RES,RK 182F 1/10 -CP
R584	06S55366Y06	RES,RK 473J 1/10 -CP
R585	06S55365Y41	RES,RK 101J 1/10 -CP
R586	06S55365Y97	RES,RK 223J 1/10 -CP
R587	06S55366Y06	RES,RK 473J 1/10 -CP
R588	06S55365Y69	RES,RK 152J 1/10 -CP
R589	06S55365Y73	RES,RK 222J 1/10 -CP
R590	06S55363Y75	RES,RK 272J 1/8 -CP
R591	06S55365Y97	RES,RK 223J 1/10 -CP
R592	06S55365Y65	RES,RK 102J 1/10 -CP
R593	06S55365Y65	RES,RK 102J 1/10 -CP
R594	06S55365Y65	RES,RK 102J 1/10 -CP

Symbol No.	Part No.	Description
R595	06S55365Y65	RES,RK 102J 1/10 -CP
R596	06S55365Y57	RES,RK 471J 1/10 -CP
R597	06S55365Y53	RES,RK 331J 1/10 -CP
R598	06S55365Y65	RES,RK 102J 1/10 -CP
R599	06S55366Y06	RES,RK 473J 1/10 -CP
R601	06S55361Y89	RES,RK 103J 1/4 -CP
R602	06S55366Y06	RES,RK 473J 1/10 -CP
R603	06S55361Y89	RES,RK 103J 1/4 -CP
R604	06S55365Y89	RES,RK 103J 1/10 -CP
R605	06S55361Y65	RES,RK 102J 1/4 -CP
R606	06S55363Y89	RES,RK 103J 1/8 -CP
R607	06S55361Y41	RES,RK 101J 1/4 -CP
R608	06S55365Y73	RES,RK 222J 1/10 -CP
R609	06S55365Y77	RES,RK 332J 1/10 -CP
R610	06S55366Y30	RES,RK 474J 1/10 -CP
R611	06S55365Y97	RES,RK 223J 1/10 -CP
R612	06S55365Y65	RES,RK 102J 1/10 -CP
R613	06S55361Y29	RES,RK 33RJ 1/4 -CP
R614	06S55361Y29	RES,RK 33RJ 1/4 -CP
R615	06S55361Y29	RES,RK 33RJ 1/4 -CP
R616	06S55361Y29	RES,RK 33RJ 1/4 -CP
R617	06S55361Y29	RES,RK 33RJ 1/4 -CP
R618	06S55361Y29	RES,RK 33RJ 1/4 -CP
R619	06S55366Y06	RES,RK 473J 1/10 -CP
R620	06S55366Y06	RES,RK 473J 1/10 -CP
R621	06S55365Y97	RES,RK 223J 1/10 -CP
R655	06S55361Y56	RES,RK 431J 1/4 -CP
R801	06S55365Y53	RES,RK 331J 1/10 -CP
R802	06S55365Y57	RES,RK 471J 1/10 -CP
R803	06S45348Y31	RES,RK 224F 1/4 -CP
R804	06S55366Y30	RES,RK 474J 1/10 -CP
R805	06S55362Y36	RES,RK 824J 1/4 -CP
R806	06S55361Y81	RES,RK 472J 1/4 -CP
R807	06S55361Y81	RES,RK 472J 1/4 -CP
R808	06S55365Y97	RES,RK 223J 1/10 -CP
R809	06S15593Y87	RES,RK 393F 1/10 -CP
R811	06S55365Y97	RES,RK 223J 1/10 -CP
R812	06S15593Y73	RES,RK 103F 1/10 -CP
R813	06S55361Y46	RES,RK 161J 1/4 -CP
R814	06S55361Y01	RES,RK 2R2J 1/4 -CP
R817	06S55365Y97	RES,RK 223J 1/10 -CP
R818	06S55366Y37	RES,RK 914J 1/10 -CP
R819	06S15593Y63	RES,RK 392F 1/10 -CP
R820	06S55366Y39	RES,RK JUMPER1/10-CP
R821	06S55365Y97	RES,RK 223J 1/10 -CP
R822	06S55361Y58	RES,RK 511J 1/4 -CP
R823	06S15593Y93	RES,RK 683F 1/10 -CP
R824	06S15593Y83	RES,RK 273F 1/10 -CP
R826	06S55366Y23	RES,RK 244J 1/10 -CP

Symbol No.	Part No.	Description
R827	06S55361Y41	RES,RK 101J 1/4 -CP
R829	06S55363Y44	RES,RK 131J 1/8 -CP
R830	06S55361Y89	RES,RK 103J 1/4 -CP
R831	06S55365Y77	RES,RK 332J 1/10 -CP
R832	06S55361Y69	RES,RK 152J 1/4 -CP
R833	06S55361Y89	RES,RK 103J 1/4 -CP
R834	06T25590Y03	RES,RK 2R2J 1W -
R835	06S55365Y89	RES,RK 103J 1/10 -CP
R837	06S55363Y98	RES,RK 243J 1/8 -CP
R838	06S55361Y71	RES,RK 182 1/4 -CP
R839	06S55361Y71	RES,RK 182 1/4 -CP
R868	06S55365Y90	RES,RK 113J 1/10 -CP
R869	06S55365Y49	RES,RK 221J 1/10 -CP
R870	06S55365Y93	RES,RK 153J 1/10 -CP
R872	06S55361Y51	RES,RK 271J 1/4 -CP
R873	06S55361Y51	RES,RK 271J 1/4 -CP
R874	06S55366Y39	RES,RK JUMPER1/10-CP
R879	06S55365Y89	RES,RK 103J 1/10 -CP
R881	06S55361Y01	RES,RK 2R2J 1/4 -CP
R891	06S55365Y81	RES,RK 472J 1/10 -CP
R5001	06S55366Y06	RES,RK 473J 1/10 -CP
R5004	06S55366Y06	RES,RK 473J 1/10 -CP
R5005	06S55362Y39	RES,RK JUMPER 1/4-CP
R5006	06S55365Y65	RES,RK 102J 1/10 -CP
R5007	06S55366Y14	RES,RK 104J 1/10 -CP
R5008	06S55366Y14	RES,RK 104J 1/10 -CP
R5009	06S55365Y75	RES,RK 272J 1/10 -CP
R5011	06S55366Y14	RES,RK 104J 1/10 -CP
R5012	06S55366Y30	RES,RK 474J 1/10 -CP
R5013	06S55366Y02	RES,RK 333J 1/10 -CP
R5015	06S55366Y14	RES,RK 104J 1/10 -CP
R5016	06S55365Y81	RES,RK 472J 1/10 -CP
R5019	06S55364Y39	RES,RK JUMPER 1/8-CP
RA504	06S45591W06	RES,ARY MNR102J 4-CP
RA505	06S45591W06	RES,ARY MNR102J 4-CP
RA508	06S45591W06	RES,ARY MNR102J 4-CP
RA509	06S45591W16	RES,ARY MNR223J 4-CP
Connectors		
CB330	09T25436Y06	WTB,53253-0610 -DB
CB331	09T25436Y03	WTB,53253-0310 -DB
CB501	09T45434W15	FFC,52271-1590 -ED
CB601	09T25436Y02	WTB,53253-0210 -DB
CB802	09T25436Y05	WTB,53253-0510 -DB
CB803	09T25436Y03	WTB,53253-0310 -DB
CH102	09T25261Y22	FFC,SFW22R-1STE1 -EQ

Symbol No.	Part No.	Description
Front P.W.Board		
IC's		
IC401	51T02347K01	PT6583LQ -QT
IC402	51T02236K01	PT6523LQ -QT
IC403	51T35614Y01	SBX3050-02 -NE5
IC404	51T55235Y01	TC74VHC595FT-EL -SE5
Transistors		
Q400	48T64222F01	TR ,UN2211 10-10 -TX
Q401	48T52438F04	TR ,2SD601A-S /TX-CP
Q402	48T63788F04	TR ,CP.2SD1328-T -TX
Q403	48T63788F04	TR ,CP.2SD1328-T -TX
Q404	48T64222F01	TR ,UN2211 10-10 -TX
Q405	48T64222F01	TR ,UN2211 10-10 -TX
Q407	48T73023F01	TR ,2SD874A -E2
Q408	48T63788F04	TR ,CP.2SD1328-T -TX
Q409	48T52438F04	TR ,2SD601A-S /TX-CP
Diodes		
D401	48T81063F01	DIO,CP.MA159 / TX-CP
D402	48T94471F04	DIO,IMN10-T108 -CP
D405	48T85357W01	DIO,1PS226 -CP
D406	48T85357W01	DIO,1PS226 -CP
D407	48T85357W01	DIO,1PS226 -CP
D408	48T85357W01	DIO,1PS226 -CP
D409	48T85357W01	DIO,1PS226 -CP
D410	48T85357W01	DIO,1PS226 -CP
D411	48T25651W02	DIO,MA152WK-TX -CP
ZD401	48T84735F21	DIO,ZEN.MA3082-H -CP
ZD402	48T15541Y23	DIO,ZEN MAZS180 -CP
ZD403	48T15541Y23	DIO,ZEN MAZS180 -CP
ZD404	48T15541Y23	DIO,ZEN MAZS180 -CP
ZD407	48T15541Y23	DIO,ZEN MAZS180 -CP
ZD408	48T62934F26	DIO,ZEN.RD6.2MB3 -CP
ZD409	48T62934F26	DIO,ZEN.RD6.2MB3 -CP
LED's		
LD400	48T25534Y01	LED,GRN BG1111C -CP
LD401	48T25534Y02	LED,RED BR1111C -CP
LD402	48T25534Y03	LED,AMB AA1111C -CP
LD403	48T25534Y03	LED,AMB AA1111C -CP
LD404	48T25534Y03	LED,AMB AA1111C -CP

Symbol No.	Part No.	Description
LD405	48T25534Y08	LED,AMB FA1111C -CP
LD406	48T25534Y03	LED,AMB AA1111C -CP
LD407	48T25534Y03	LED,AMB AA1111C -CP
LD408	48T25534Y08	LED,AMB FA1111C -CP
LD409	48T25534Y08	LED,AMB FA1111C -CP
LD410	48T25534Y08	LED,AMB FA1111C -CP
LD411	48T25534Y08	LED,AMB FA1111C -CP
LD412	48T25534Y08	LED,AMB FA1111C -CP
LD413	48T25534Y08	LED,AMB FA1111C -CP
LD414	48T25534Y03	LED,AMB AA1111C -CP
LD415	48T25534Y03	LED,AMB AA1111C -CP
LD416	48T25534Y08	LED,AMB FA1111C -CP
LD417	48T25534Y08	LED,AMB FA1111C -CP
LD418	48T25534Y03	LED,AMB AA1111C -CP
LD419	48T25534Y03	LED,AMB AA1111C -CP
LD420	48T25534Y03	LED,AMB AA1111C -CP
LD421	48T25534Y03	LED,AMB AA1111C -CP
LD422	48T25534Y08	LED,AMB FA1111C -CP
LD423	48T25534Y08	LED,AMB FA1111C -CP
LD424	48T25534Y03	LED,AMB AA1111C -CP
LD425	48T25534Y03	LED,AMB AA1111C -CP
LD426	48T45280Y01	LED,WHT NSCWS405T-E2
LD427	48T45280Y01	LED,WHT NSCWS405T-E2
LD428	48T45280Y01	LED,WHT NSCWS405T-E2
LD429	48T45280Y01	LED,WHT NSCWS405T-E2
LD430	48T45280Y01	LED,WHT NSCWS405T-E2
LD431	48T45280Y01	LED,WHT NSCWS405T-E2
LD432	48T25534Y01	LED,GRN BG1111C -CP
LD433	48T25534Y01	LED,GRN BG1111C -CP
LD434	48T25534Y01	LED,GRN BG1111C -CP
LD435	48T25534Y01	LED,GRN BG1111C -CP
LD440	48T25534Y01	LED,GRN BG1111C -CP
LD441	48T25534Y01	LED,GRN BG1111C -CP
LD442	48T25534Y01	LED,GRN BG1111C -CP
LD443	48T25534Y01	LED,GRN BG1111C -CP
LD444	48T25534Y01	LED,GRN BG1111C -CP
LD445	48T25534Y01	LED,GRN BG1111C -CP
LD446	48T25534Y01	LED,GRN BG1111C -CP
Switches		
SW401	40T55656W06	SW,TACT SKQMAJ001-E2(SOURCE/POWER)
SW402	40T55656W06	SW,TACT SKQMAJ001-E2(FWD/UP)
SW403	40T55656W06	SW,TACT SKQMAJ001-E2(CENTER f)
SW404	40T55656W06	SW,TACT SKQMAJ001-E2 (3/PTY/FILE SEARCH)
SW405	40T55656W06	SW,TACT SKQMAJ001-E2 (PLAY/PAUSE/TUNE/A.ME/CAT)

Symbol No.	Part No.	Description
SW406	40T55656W06	SW,TACT SKQMAJ001-E2(TITLE)
SW407	40T55656W06	SW,TACT SKQMAJ001-E2 (4/(P/S)/REPEAT)
SW408	40T55656W06	SW,TACT SKQMAJ001-E2(BAND)
SW409	40T55656W06	SW,TACT SKQMAJ001-E2(T.INFO)
SW410	40T55656W06	SW,TACT SKQMAJ001-E2(F/SETUP)
SW411	40T55656W06	SW,TACT SKQMAJ001-E2(DISP)
SW412	40T55656W06	SW,TACT SKQMAJ001-E2(MX)
SW413	40T55656W06	SW,TACT SKQMAJ001-E2 (1/AF/FOLDER DN)
SW414	40T55656W06	SW,TACT SKQMAJ001-E2(5/M.I.X.)
SW415	40T55656W06	SW,TACT SKQMAJ001-E2(EJECT)
SW416	40T55656W06	SW,TACT SKQMAJ001-E2(BWD/DN)
SW417	40T55656W06	SW,TACT SKQMAJ001-E2 (T.CORR/X-OVER)
SW418	40T55656W06	SW,TACT SKQMAJ001-E2 (2/P.PTY/FOLDER UP)
SW419	40T55656W06	SW,TACT SKQMAJ001-E2(6/SCAN)
SW420	40T55656W06	SW,TACT SKQMAJ001-E2(ANGLE UP/DN)
SW422	40T55656W06	SW,TACT SKQMAJ001-E2(RESET)
Lamps		
PL401	65T35324Y02	LAMP,GRN 6-80 -E5
PL402	65T35324Y02	LAMP,GRN 6-80 -E5
PL403	65T35324Y02	LAMP,GRN 6-80 -E5
PL404	65T35324Y02	LAMP,GRN 6-80 -E5
Capacitors		
C401	08S45676W89	CAP,CER 473K-B1E -CP
C402	08S45677W60	CAP,CER 102J-CH1H-CP
C403	08S45676W89	CAP,CER 473K-B1E -CP
C404	08S45676W89	CAP,CER 473K-B1E -CP
C405	08S45676W89	CAP,CER 473K-B1E -CP
C406	08S45676W89	CAP,CER 473K-B1E -CP
C407	08S45676W89	CAP,CER 473K-B1E -CP
C408	08S45677W56	CAP,CER 681J-CH1H-CP
C409	08S35350Y04	CAP,CER 105K-B1C -CP
C410	08S45677W36	CAP,CER.101J-CH1H-CP
C411	08S45676W64	CAP,CER.182K-B1H -CP
C412	08S45676W64	CAP,CER.182K-B1H -CP
C413	08S45676W64	CAP,CER.182K-B1H -CP
C414	08S45676W64	CAP,CER.182K-B1H -CP
C415	08S45676W64	CAP,CER.182K-B1H -CP
C416	08S45676W64	CAP,CER.182K-B1H -CP
C417	08S45676W80	CAP,CER 223K-B1E -CP
C418	08S45676W89	CAP,CER 473K-B1E -CP

Symbol No.	Part No.	Description
C419	08S45677W36	CAP,CER.101J-CH1H-CP
E402	23S55311W42	CAP,TAN.4R7-1D-B -CP

Resistors

Symbol No.	Part No.	Description
R400	06S55361Y98	RES,RK 243J 1/4 -CP
R401	06S55363Y65	RES,RK 102J 1/8 -CP
R402	06S55363Y65	RES,RK 102J 1/8 -CP
R403	06S55363Y65	RES,RK 102J 1/8 -CP
R404	06S55363Y65	RES,RK 102J 1/8 -CP
R405	06S55363Y53	RES,RK 331J 1/8 -CP
R406	06S55363Y65	RES,RK 102J 1/8 -CP
R407	06S55363Y65	RES,RK 102J 1/8 -CP
R408	06S55361Y66	RES,RK 112J 1/4 -CP
R409	06S55361Y26	RES,RK 24RJ 1/4 -CP
R410	06S55361Y28	RES,RK 30RJ 1/4 -CP
R411	06S55361Y60	RES,RK 621J 1/4 -CP
R412	06S55361Y66	RES,RK 112J 1/4 -CP
R413	06S55361Y70	RES,RK 162J 1/4 -CP
R414	06S55361Y66	RES,RK 112J 1/4 -CP
R415	06S55361Y51	RES,RK 271J 1/4 -CP
R416	06S55361Y51	RES,RK 271J 1/4 -CP
R417	06S55361Y41	RES,RK 101J 1/4 -CP
R418	06S55361Y41	RES,RK 101J 1/4 -CP
R419	06S55361Y41	RES,RK 101J 1/4 -CP
R420	06S55365Y73	RES,RK 222J 1/10 -CP
R421	06S55365Y81	RES,RK 472J 1/10 -CP
R422	06S55361Y37	RES,RK 68RJ 1/4 -CP
R423	06S55365Y81	RES,RK 472J 1/10 -CP
R427	06S55366Y05	RES,RK 433J 1/10 -CP
R429	06S55365Y65	RES,RK 102J 1/10 -CP
R431	06S55365Y97	RES,RK 223J 1/10 -CP
R434	06S55361Y25	RES,RK 22RJ 1/4 -CP
R435	06S55361Y25	RES,RK 22RJ 1/4 -CP
R436	06S55361Y25	RES,RK 22RJ 1/4 -CP
R437	06S55361Y25	RES,RK 22RJ 1/4 -CP
R438	06S55365Y65	RES,RK 102J 1/10 -CP
R439	06S55366Y05	RES,RK 433J 1/10 -CP
R443	06S55366Y14	RES,RK 104J 1/10 -CP
R444	06S55365Y81	RES,RK 472J 1/10 -CP
R446	06S55363Y41	RES,RK 101J 1/8 -CP
R447	06S55361Y98	RES,RK 243J 1/4 -CP
R448	06S55365Y65	RES,RK 102J 1/10 -CP
R452	06S55361Y57	RES,RK 471J 1/4 -CP
R453	06S55366Y39	RES,RK JUMPER1/10-CP
R454	06S55361Y49	RES,RK 221J 1/4 -CP
R455	06S55361Y49	RES,RK 221J 1/4 -CP
R456	06S55362Y39	RES,RK JUMPER 1/4-CP

Symbol No.	Part No.	Description
R458	06S55362Y39	RES,RK JUMPER 1/4-CP
R460	06S55365Y81	RES,RK 472J 1/10 -CP
R461	06S55365Y81	RES,RK 472J 1/10 -CP
R468	06S55361Y49	RES,RK 221J 1/4 -CP
R469	06S55361Y49	RES,RK 221J 1/4 -CP
R471	06S55362Y39	RES,RK JUMPER 1/4-CP
R472	06S55361Y25	RES,RK 22RJ 1/4 -CP
R473	06S55361Y31	RES,RK 39RJ 1/4 -CP
R474	06S55361Y26	RES,RK 24RJ 1/4 -CP
R475	06S55361Y76	RES,RK 302J 1/4 -CP
R476	06S55361Y57	RES,RK 471J 1/4 -CP
R481	06S55362Y39	RES,RK JUMPER 1/4-CP
RA401	06S45591W06	RES,ARY MNR102J 4-CP
RA402	06S45591W06	RES,ARY MNR102J 4-CP
RA403	06S45591W06	RES,ARY MNR102J 4-CP
RA404	06S45591W06	RES,ARY MNR102J 4-CP
RA405	06S45591W04	RES,ARY MNR103J 4-CP

DP-S Main P.W.Board

IC's

Symbol No.	Part No.	Description
IC101	51T55083Y01	TA2157FN-EL -SE6
IC102	51T55086Y01	TC94A14FA -QT
IC103	51T25503Y01	BA5985FM-E2 -SEA
IC104	51T55306Y01	OTP,TMP87PM48U -QT
IC201	51T55311Y01	TC94A02F-005 -QT
IC202	51T55323Y01	HY62U8100BLLST -ST
IC801	51T35243Y02	RN5RZ25BA-TR -CP
IC803	51T25711Y01	BA033SFP-E2 -NE5
IC804	51T55322Y01	RH5RZ33CA-T1 -NE2
IC805	51T35243Y02	RN5RZ25BA-TR -CP

Transistors

Symbol No.	Part No.	Description
Q101	48T55462Y01	TR,2SB1132-QR-100-E2
Q102	48T45251W03	TR ,UN5212 22-22 -CP
Q103	48T45251W53	TR ,UN5112 22-22 -CP
Q802	48T94875F06	DTB,CP-113ZK-96
Q803	48T45251W03	TR ,UN5212 22-22 -CP
Q804	48T45594W12	TR ,XN1A312 -TX-CP

Diode

Symbol No.	Part No.	Description
D101	48T25665Y01	DIO,1SS355-TE17 -CP

Symbol No.	Part No.	Description
Coils		
L201	24T25164Y21	IND,FSLM2520 4R7J-CP
L202	24T25164Y21	IND,FSLM2520 4R7J-CP
L203	24T25164Y21	IND,FSLM2520 4R7J-CP
L204	24T25164Y21	IND,FSLM2520 4R7J-CP
L205	24T25164Y33	IND,FSLM2520 47RJ-CP
Crystals		
CL101	91T75576W11	OSC,CER EF0S8004E-E5
XL200	91T35227Y01	XTL,CS10 16.9344M-E2
Filter		
L101	91T65112W06	EMI,BK2125HM102 -CP
Capacitors		
C101	08S45676W73	CAP,CER.103K-B1H -CP
C102	08S45676W80	CAP,CER 223K-B1E -CP
C103	08S45676W80	CAP,CER 223K-B1E -CP
C104	08S45676W89	CAP,CER 473K-B1E -CP
C105	08S45676W89	CAP,CER 473K-B1E -CP
C107	08S45677W03	CAP,CER 1R5C-CH1H-CP
C108	08S45677W20	CAP,CER.22RJ-CH1H-CP
C109	08S45676W85	CAP,CER 104K-B1C -CP
C110	08S45676W85	CAP,CER 104K-B1C -CP
C111	08S45676W69	CAP,CER.472K-B1H -CP
C112	08S45676W71	CAP,CER.682K-B1H -CP
C113	08S45677W28	CAP,CER 47RJ-CH1H-CP
C114	08S45676W75	CAP,CER.153K-B1H -CP
C115	08S45676W73	CAP,CER.103K-B1H -CP
C116	08S45676W66	CAP,CER.272K-B1H -CP
C117	08S45676W73	CAP,CER.103K-B1H -CP
C118	08S45676W85	CAP,CER 104K-B1C -CP
C119	08S45676W87	CAP,CER 333K-B1E -CP
C120	08S45676W85	CAP,CER 104K-B1C -CP
C121	08S45676W73	CAP,CER.103K-B1H -CP
C122	08S45676W73	CAP,CER.103K-B1H -CP
C123	08S45676W73	CAP,CER.103K-B1H -CP
C124	08S45676W65	CAP,CER.222K-B1H -CP
C125	08S35349Y09	CAP,CER 122K-B1H -CP
C126	08S45676W89	CAP,CER 473K-B1E -CP
C127	08S45676W89	CAP,CER 473K-B1E -CP
C129	08S45676W85	CAP,CER 104K-B1C -CP
C130	08S45676W85	CAP,CER 104K-B1C -CP

Symbol No.	Part No.	Description
C131	08S45676W85	CAP,CER 104K-B1C -CP
C132	08S45676W85	CAP,CER 104K-B1C -CP
C133	08S45676W85	CAP,CER 104K-B1C -CP
C135	08S45677W42	CAP,CER.181J-CH1H-CP
C138	08S45676W73	CAP,CER.103K-B1H -CP
C139	08S45676W85	CAP,CER 104K-B1C -CP
C140	08S45676W73	CAP,CER.103K-B1H -CP
C142	08S45677W20	CAP,CER.22RJ-CH1H-CP
C143	08S35350Y05	CAP,CER 105K-B1A -CP
C200	08S35374W07	CAP,CER 334K-B1C -CP
C201	08S45676W85	CAP,CER 104K-B1C -CP
C202	08S45677W12	CAP,CER.10RD-CH1H-CP
C203	08S45677W14	CAP,CER.12RJ-CH1H-CP
C204	08S45676W85	CAP,CER 104K-B1C -CP
C205	08S45676W85	CAP,CER 104K-B1C -CP
C206	08S45676W85	CAP,CER 104K-B1C -CP
C208	08S45676W85	CAP,CER 104K-B1C -CP
C209	08S45676W85	CAP,CER 104K-B1C -CP
C210	08S45676W85	CAP,CER 104K-B1C -CP
C211	08S45676W73	CAP,CER.103K-B1H -CP
C212	08S45676W73	CAP,CER.103K-B1H -CP
C216	08S45677W44	CAP,CER.221J-CH1H-CP
C217	08S45676W85	CAP,CER 104K-B1C -CP
C802	08S35350Y05	CAP,CER 105K-B1A -CP
C803	08S45676W85	CAP,CER 104K-B1C -CP
C805	08S45676W85	CAP,CER 104K-B1C -CP
C806	08S45676W85	CAP,CER 104K-B1C -CP
C807	08S45676W85	CAP,CER 104K-B1C -CP
C809	08S45676W85	CAP,CER 104K-B1C -CP
C811	08S45676W85	CAP,CER 104K-B1C -CP
C812	08S45676W85	CAP,CER 104K-B1C -CP
C813	08S45676W85	CAP,CER 104K-B1C -CP
C814	08S45676W85	CAP,CER 104K-B1C -CP
E101	23T25191W60	CAP,MF 47R-0G-C6-E2
E102	23S55311W35	CAP,TAN 10R-1C-B -CP
E103	23S55311W35	CAP,TAN 10R-1C-B -CP
E104	23S55311W35	CAP,TAN 10R-1C-B -CP
E105	23T25191W67	CAP,E-MF10R-1C-B6-E2
E106	23T25191W62	CAP,E-MF22R-0J-B6-E2
E110	23T25191W11	CAP,MF 22R-1A-D8-E5
E111	23T25191W62	CAP,E-MF22R-0J-B6-E2
E201	23T25191W60	CAP,MF 47R-0G-C6-E2
E202	23T25191W60	CAP,MF 47R-0G-C6-E2
E203	23T25191W62	CAP,E-MF22R-0J-B6-E2
E204	23T25191W62	CAP,E-MF22R-0J-B6-E2
E205	23T25191W62	CAP,E-MF22R-0J-B6-E2
E206	23T25191W60	CAP,MF 47R-0G-C6-E2
E207	23T25191W62	CAP,E-MF22R-0J-B6-E2
E801	23T25191W62	CAP,E-MF22R-0J-B6-E2

Symbol No.	Part No.	Description
E803	23S55311W29	CAP,TAN 47R-1A-B -CP
E804	23T25191W67	CAP,E-MF10R-1C-B6-E2
E805	23T25191W63	CAP,MF 33R-0J-C6-E2
E806	23S55311W28	CAP,TAN 22R-1A-B -CP
Resistors		
R101	06T25278Y05	RES,RK 913J 1/10 -CP
R102	06S45674W97	RES,RK 473J 1/10 -CP
R103	06S45674W97	RES,RK 473J 1/10 -CP
R104	06T25278Y05	RES,RK 913J 1/10 -CP
R105	06S45675W45	RES,RK 1R0J 1/10 -CP
R107	06S45674W95	RES,RK 393J 1/10 -CP
R109	06S45674W89	RES,RK 223J 1/10 -CP
R110	06S45674W81	RES,RK 103J 1/10 -CP
R111	06T25277Y78	RES,RK 752J 1/10 -CP
R112	06S45674W81	RES,RK 103J 1/10 -CP
R113	06S45674W33	RES,RK 101J 1/10 -CP
R114	06S45674W95	RES,RK 393J 1/10 -CP
R115	06S45674W57	RES,RK 102J 1/10 -CP
R116	06S45674W57	RES,RK 102J 1/10 -CP
R117	06S45674W75	RES,RK 562J 1/10 -CP
R118	06S45674W97	RES,RK 473J 1/10 -CP
R119	06S45675W22	RES,RK 474J 1/10 -CP
R120	06S45675W34	RES,RK 225J 1/10 -CP
R121	06S45674W85	RES,RK 153J 1/10 -CP
R122	06S45674W81	RES,RK 103J 1/10 -CP
R123	06S45675W06	RES,RK 104J 1/10 -CP
R124	06S45674W33	RES,RK 101J 1/10 -CP
R125	06S45674W97	RES,RK 473J 1/10 -CP
R126	06S45674W33	RES,RK 101J 1/10 -CP
R127	06S45674W33	RES,RK 101J 1/10 -CP
R128	06S45674W33	RES,RK 101J 1/10 -CP
R129	06S45674W33	RES,RK 101J 1/10 -CP
R130	06S45674W33	RES,RK 101J 1/10 -CP
R131	06S45674W69	RES,RK 332J 1/10 -CP
R132	06S45674W69	RES,RK 332J 1/10 -CP
R133	06S45674W33	RES,RK 101J 1/10 -CP
R134	06S45674W97	RES,RK 473J 1/10 -CP
R135	06S45675W20	RES,RK 394J 1/10 -CP
R136	06S45674W95	RES,RK 393J 1/10 -CP
R137	06S45674W81	RES,RK 103J 1/10 -CP
R138	06S45674W91	RES,RK 273J 1/10 -CP
R139	06S45674W81	RES,RK 103J 1/10 -CP
R140	06S45674W81	RES,RK 103J 1/10 -CP
R141	06S45674W57	RES,RK 102J 1/10 -CP
R142	06S45674W57	RES,RK 102J 1/10 -CP
R143	06S45674W57	RES,RK 102J 1/10 -CP

Symbol No.	Part No.	Description
R144	06S45674W57	RES,RK 102J 1/10 -CP
R145	06S45674W81	RES,RK 103J 1/10 -CP
R146	06S45674W81	RES,RK 103J 1/10 -CP
R147	06S45674W89	RES,RK 223J 1/10 -CP
R148	06S45674W77	RES,RK 682J 1/10 -CP
R149	06T25278Y05	RES,RK 913J 1/10 -CP
R150	06S45674W55	RES,RK 821J 1/10 -CP
R151	06S45675W30	RES,RK 105J 1/10 -CP
R152	06S45674W33	RES,RK 101J 1/10 -CP
R153	06S45674W97	RES,RK 473J 1/10 -CP
R154	06S45674W33	RES,RK 101J 1/10 -CP
R155	06S45674W33	RES,RK 101J 1/10 -CP
R156	06S45674W33	RES,RK 101J 1/10 -CP
R157	06S45674W33	RES,RK 101J 1/10 -CP
R158	06S45674W89	RES,RK 223J 1/10 -CP
R159	06T25277Y42	RES,RK 241J 1/10 -CP
R160	06S45674W33	RES,RK 101J 1/10 -CP
R162	06S45674W93	RES,RK 333J 1/10 -CP
R163	06S45674W33	RES,RK 101J 1/10 -CP
R164	06S45674W55	RES,RK 821J 1/10 -CP
R165	06S45675W06	RES,RK 104J 1/10 -CP
R166	06S45674W93	RES,RK 333J 1/10 -CP
R167	06S45674W65	RES,RK 222J 1/10 -CP
R168	06S45674W65	RES,RK 222J 1/10 -CP
R169	06S45674W55	RES,RK 821J 1/10 -CP
R172	06S45675W06	RES,RK 104J 1/10 -CP
R173	06S45674W33	RES,RK 101J 1/10 -CP
R174	06S45674W33	RES,RK 101J 1/10 -CP
R178	06S45674W33	RES,RK 101J 1/10 -CP
R179	06S45675W43	RES,RK JUMPER1/10-CP
R180	06S45675W06	RES,RK 104J 1/10 -CP
R181	06S45675W06	RES,RK 104J 1/10 -CP
R200	06S45674W45	RES,RK 331J 1/10 -CP
R201	06S45674W45	RES,RK 331J 1/10 -CP
R202	06S45675W30	RES,RK 105J 1/10 -CP
R203	06S45674W25	RES,RK 47RJ 1/10 -CP
R204	06S45674W33	RES,RK 101J 1/10 -CP
R205	06S45674W33	RES,RK 101J 1/10 -CP
R206	06S45674W73	RES,RK 472J 1/10 -CP
R207	06S45674W33	RES,RK 101J 1/10 -CP
R208	06S45674W37	RES,RK 151J 1/10 -CP
R209	06S45674W37	RES,RK 151J 1/10 -CP
R210	06S45675W43	RES,RK JUMPER1/10-CP
R211	06S45675W43	RES,RK JUMPER1/10-CP
R212	06S45674W41	RES,RK 221J 1/10 -CP
R213	06S45674W97	RES,RK 473J 1/10 -CP
R214	06S45674W73	RES,RK 472J 1/10 -CP
R215	06S55365Y52	RES,RK 301J 1/10 -CP
R216	06S55365Y52	RES,RK 301J 1/10 -CP

Symbol No.	Part No.	Description
R217	06S55365Y52	RES, RK 301J 1/10 -CP
R218	06S45674W33	RES, RK 101J 1/10 -CP
R219	06S45675W06	RES, RK 104J 1/10 -CP
R221	06S45675W06	RES, RK 104J 1/10 -CP
R222	06S45675W06	RES, RK 104J 1/10 -CP
R223	06S45675W06	RES, RK 104J 1/10 -CP
R224	06S45675W06	RES, RK 104J 1/10 -CP
R225	06S45675W06	RES, RK 104J 1/10 -CP
R226	06S45675W06	RES, RK 104J 1/10 -CP
R804	06S45675W04	RES, RK 823J 1/10 -CP
R805	06S45675W08	RES, RK 124J 1/10 -CP
R806	06S45674W97	RES, RK 473J 1/10 -CP
RA101	06S45591W16	RES, ARY MNR223J 4-CP
RA102	06S45591W16	RES, ARY MNR223J 4-CP
RA103	06S45591W02	RES, ARY MNR473J 4-CP
RA105	06S45591W02	RES, ARY MNR473J 4-CP
RA203	06S45591W03	RES, ARY MNR104J 4-CP
RA204	06S45591W03	RES, ARY MNR104J 4-CP
RA205	06S45591W03	RES, ARY MNR104J 4-CP

Connectors

Symbol No.	Part No.	Description
CB101	09T55174Y15	FFC, IMSA9616S-15Y-ED
CB102	09T55174Y22	FFC, IMSA9616S-22Y-EQ
CB103	09T55174Y07	FFC, IMSA9616S-07Y-E9

Miscellaneous

Symbol No.	Part No.	Description
ANT001	01T02127K05	ASSY, ANT CABLE 7892A
CB801	09T35473Y16	WTB, F169B001-16 -DB
CH401	09T25444Y15	BTB, 55323-1511 -B
CH501	01T02295K02	ASSY, UNIZON CONN 93A
CH601	01T25413Y01	ASSY, CONN 2P
DIN802	01T35496Y02	ASSY, DIN 7863A0
ET330	01T35497Y20	ASSY, WIRE RCA7892A0 (FRONT OUT/REAR OUT/SUB-W)
JK601	09T55293Y01	JAC, HSJ6061-01-440DB
LCD401	65T55298Y02	LCD, WTD-21046H
M601	59T65085W01	MOTOR, LOAD FF-050SK (NOSE MOTOR/7V-370mA)
SW421	40T55277Y03	ENC, EC11E15445 -B (ROTARY ENCODER/MODE/Q. S.)
SW601	40T15494Y07	SW, DETCT SPVG21 -E6 (NOSE CLOSE DET)
SW602	40T15494Y08	SW, DETCT SPVG11 -E6 (NOSE OPEN DET)

DP23S2C0

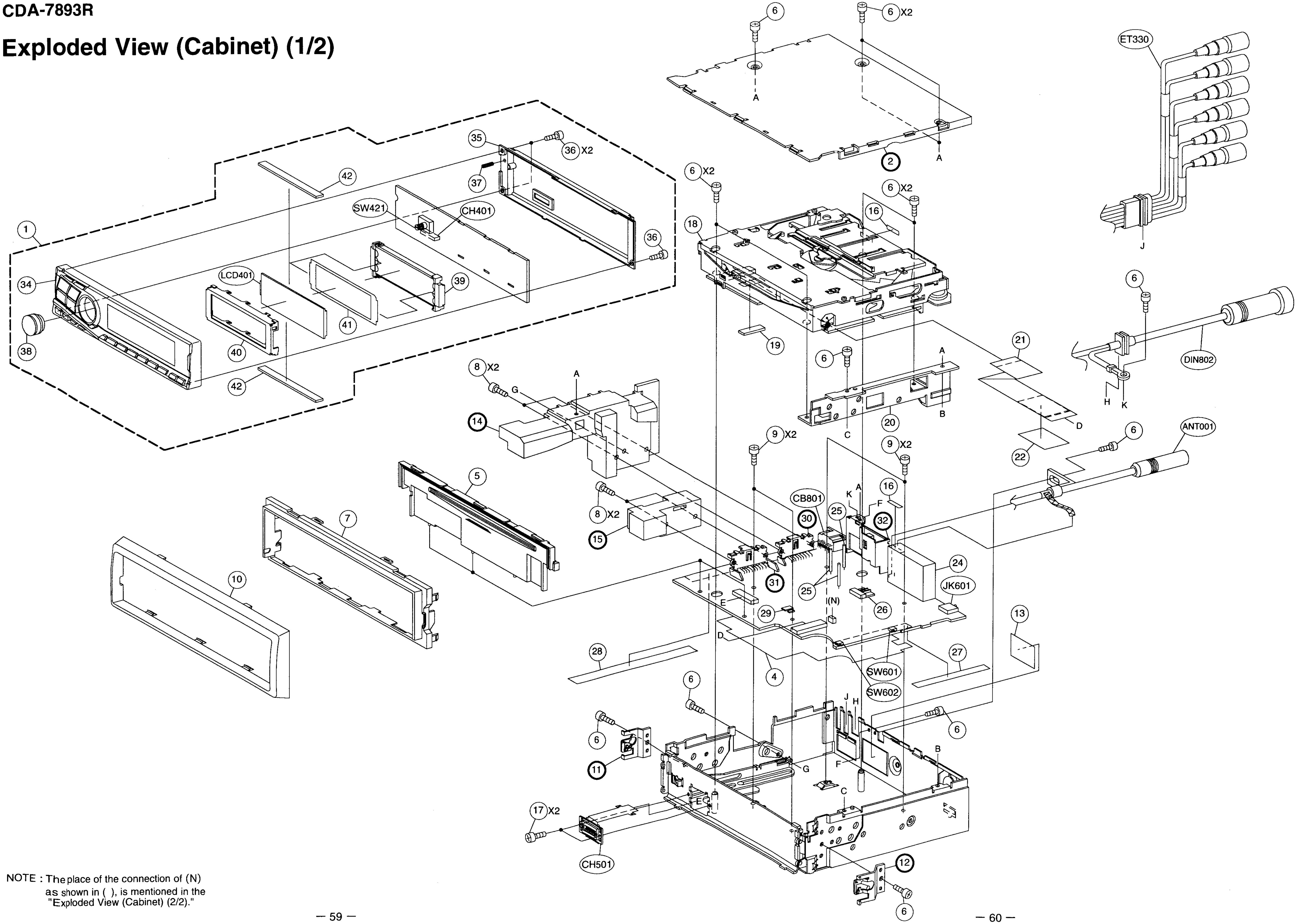
Symbol No.	Part No.	Description
HD101	81B50360Y01	PICKUP, EP21A67L
M101	01V56100Y14	ASSY, MOTOR WORM 2B0 (3. 5V-80mA)
M102	01V56100Y12	ASSY, MOTOR SLED 2B0 (3. 5V-80mA)
M103	01V56100Y11	ASSY, MTR SPINDOL 2B0 (3V-90mA)
SW1	40T15494Y01	SW, DETCT SPVG23 -E6 (12cm DISC DETECT (EJECT POSITION/ RELOAD))
SW2	40T15494Y02	SW, DETCT SPVG13 -E6 (8/12cm DISC DETECT (INSERT/ PULL OUT))
SW3	40T15494Y07	SW, DETCT SPVG21 -E6 (8cm DISC DETECT (EJECT POSITION/ RELOAD))
SW4	40T15494Y01	SW, DETCT SPVG23 -E6 (DISC CHUCKING END DETECT)
SW105	40T71025F03	SW, DETCT SPPB120 (LIMIT)

Cabinet Assembly Parts List

NOTE:Parts without part number are not supplied.

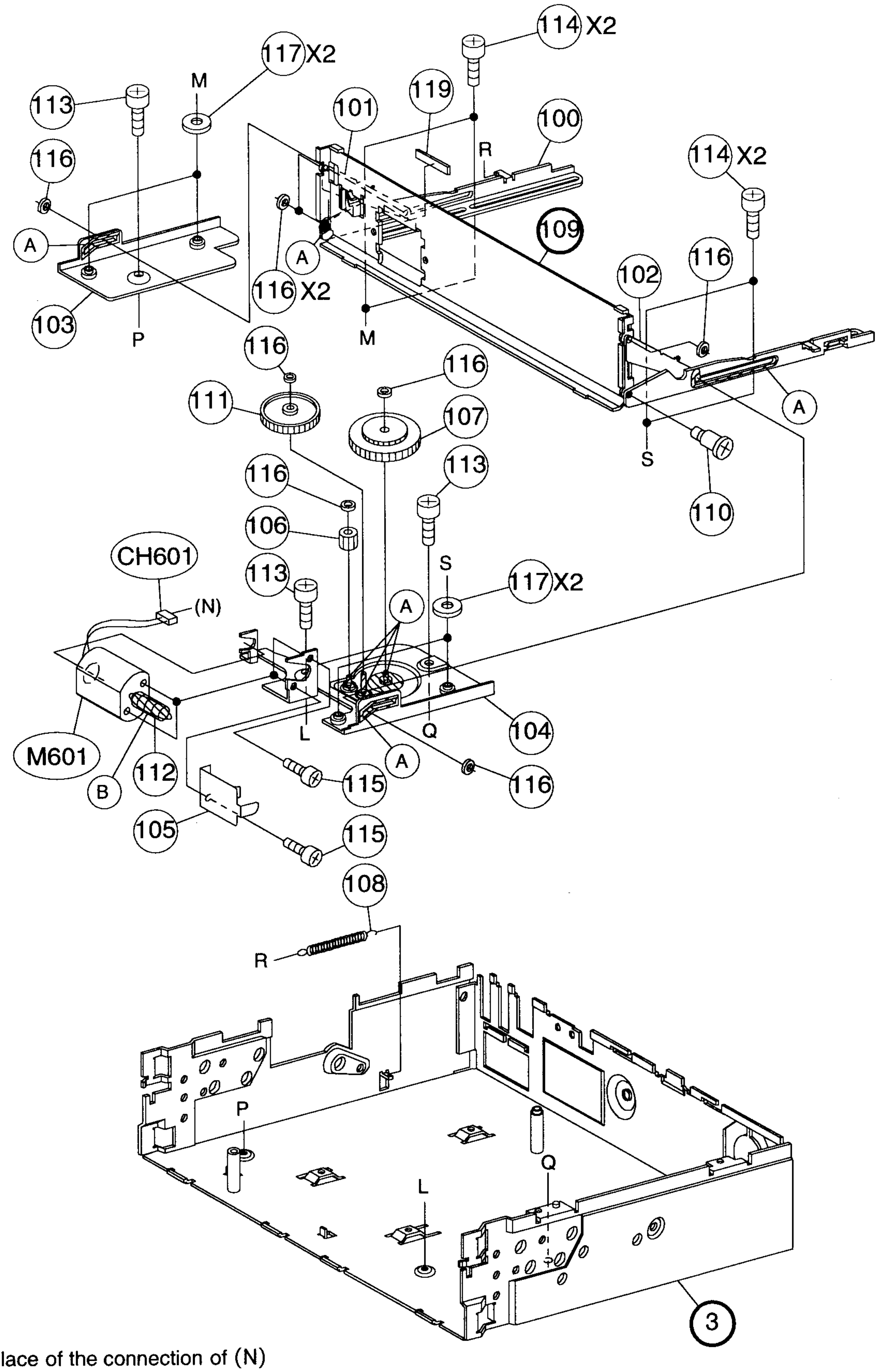
Symbol No.	Index	Part No.	Description
1		01V54330Y01	ASSY, NOSE UNIT 93R
4		14B02170K01	INSULATOR, MAIN
5		13C02359K02	NOSE, BASE (CD) ASSY
6		03S44205G07	SCR, T-TITE M2. 6X5
7		13D02363K01	NOSE, BASE COVER
8		03S38013W02	SCR, T-TITE M2. 6X14
9		03T25225Y01	SCR, GND
10		33C01797K01	FACE, PLATE
13		14S50096Y40	INS, CVR 33X22XT0. 3
16		75T25010Y26	CUSHION, SHLD5-5. 5-20
17		03S94385F77	SCR, NYLOK M1. 7X3
18		81D50772Y01	DP23S2C0, CD MECH
19		75S40755Y78	CUS, RUB 11X5XT4. 5
20		07B02147K01	BKT, MECH (CD)
21		30T45473Y06	FFC, RMW0369-2A
22		14S50096Y36	INS, CVR 30X23XT0. 188
24		77B50182Y01	MB4R002H, FM/AM UNIT (TU1)
25		09T84840F02	LUG, STYLE 32MM
26		36A70327W01	KNOB, SLIDE
27		14S31545Y16	INS, CVR 59X8XT0. 1
28		14S31545Y17	INS, CVR 100X8XT0. 1
29		75S40755Y77	CUS, RUB 10X6XT1
34		13C02231K02	NOSE, PIECE ASSY (H)
35		13D40822Y01	NOSE, BOTTOM
36		03S68555F20	SCR, WAVE M1. 7X5
37		41A50111W10	SPRING, KNOB
38		36B50405Y03	KNOB, ROTALY ASSY
39		15D01793K01	CASE, LCD ASSY
40		15B01794K01	COVER, LCD
41		26A41974Y01	REFLECTOR, SHEET
42		75T85248W13	RUBBER, ELECTRIC
100		07B02259K01	BKT, SLIDER
101		07A01754K01	BKT, ARM (L)
102		07A01754K02	BKT, ARM (R)
103		07A02260K01	BKT, BASE L
104		07C02261K01	BKT, BASE R
105		41A50048Y01	SPRING, WORM
106		44A02263K01	GEAR, ID
107		44A02262K01	GEAR, SLIDER
108		41A50060Y01	SPRING, SLIDE
110		03A20851Y02	SCR, SLIDER
111		44B01846K01	GEAR, CLUTCH ASSY
112		44A01840K01	GEAR, WORM
113		03S94385F13	SCR, NYLOK M2. 6X3
114		03S94385F25	SCREW, NYLOK
115		03S68259F23	SCR, P-LOCK M2X3
116		04B41345P54	WASHER, LOCK
117		43A50493Y01	BUSH, SLIDER
118		41A50492Y01	SPRING, NOSE
119		75S40755Y50	CUS, RUB 18X4XT2

Exploded View (Cabinet) (1/2)


6
6 X2
ET330
A
2
A
J
35
36 X2
42
37
SW421
CH401
1
36
6 X2
6 X2
16
18
LCD401
34
39
41
40
38
42
19
6
A
21
DIN802
6
8 X2
G
A
14
B
20
C
D
H
K
22
9 X2
9 X2
6
ANT001
5
8 X2
15
16
CB801
K
A
F
25
30
32
7
31
25
24
JK601
10
(N)
29
26
E
D
13
28
27
4
SW601
SW602
6
J
H
6
6
B
11
G
F
C
E
17 X2
12
CH501
6

NOTE : The place of the connection of (N) as shown in ( ), is mentioned in the "Exploded View (Cabinet) (2/2)."

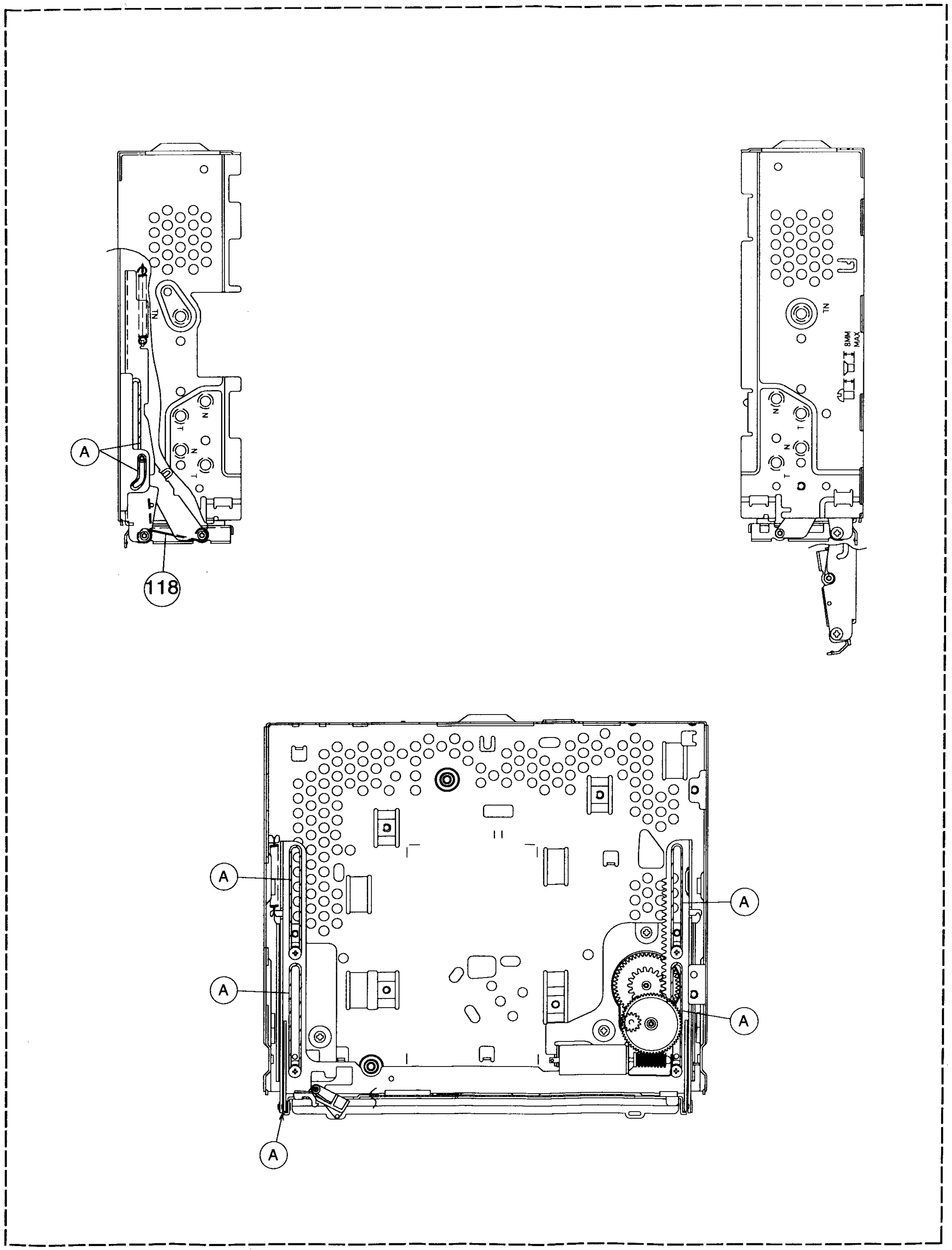
Exploded View (Cabinet) (2/2)


114 X2
117 X2
M
113
101
119
100
R
116
114 X2
109
A
A
116 X2
102
116
103
P
M
116
116
A
111
107
S
113
116
110
106
CH601
(N)
113
S
117 X2
A
L
Q
104
M601
112
A
116
B
115
105
115
108
R
P
L
Q
3

NOTE : The place of the connection of (N)
as shown in ( ), is mentioned in the
"Exploded View (Cabinet) (1/2)."

▨.......point of GREASE applied.

Ⓐ	GREASE,E-PAST (11S42419J09)
Ⓑ	GREASE,G-8007 (11S41558Y01)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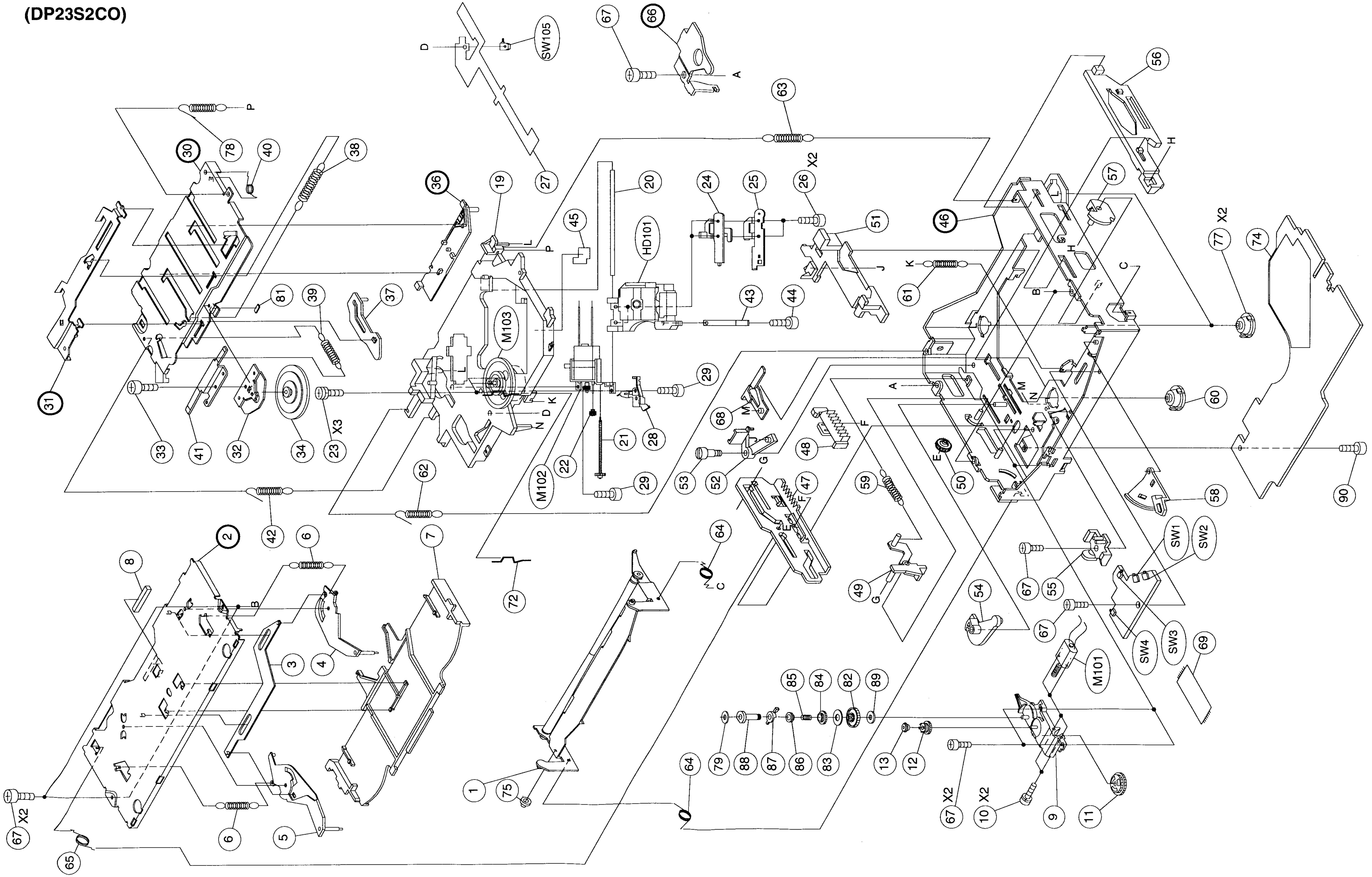
118
TN
N
T
8MM MAX
A
A
A
A
A

Exploded View (CD Deck Mechanism)

(DP23S2CO)


67
66
SW105
D
A
P
78
40
30
38
36
19
27
63
20
24
25
26
X2
56
H
57
46
51
45
HD101
L
P
77
X2
74
81
39
37
43
44
K
61
J
B
C
M103
31
29
A
M
N
60
K
D
N
28
33
41
32
34
23
X3
68
F
48
50
E
90
22
21
M102
29
53
52
G
47
F
59
58
62
42
2
6
7
8
64
C
72
49
G
54
67
55
SW1
SW2
67
SW3
SW4
69
M101
3
4
85
84
82
89
79
88
87
86
83
13
12
64
1
75
67
X2
10
X2
9
11
67
X2
6
5
65

CD Deck Mechanism Assembly Parts List

NOTE:Parts without part number are not supplied.

Symbol No.	Index	Part No.	Description
1		01V43800Y84	ASSY,ARM GUIDE 280
3		45B11564Y02	LEVER,LINK-TOP
4		45B11595Y02	LEVER DISC(R)
5		45B11596Y02	LEVER,DISC(L)
6		41B11613Y16	SPRING,PULL
7		15D50248Y01	GUIDE,TOP-DPS2
8		75A21286Y04	CUSHION,CLAMPER DPS2
9		07C50608Y01	BKT,MOTOR LOAD-P
10		03S40014G07	SCR,MCH M2X4
11		44B11578Y02	GEAR,(A)
12		44B11579Y02	GEAR,(B)
13		44B11580Y02	GEAR,(C)
19		27D11602Y04	CHASSIS,PICKUP
20		47A11575Y01	SHAFT,PICK
21		01V28100Y59	ASSY,SHAFT.SCREW
22		44A70590W03	GEAR,MIDDLE
23		03S72235F96	SCR,MCH M1.7X3.5(SW)
24		07B30337Y02	BKT,SPRING NUT
25		41A11606Y10	SPRING,NUT
26		03S94385F18	SCR,NYLON M2X3.5
27		84T01803K01	PANEL,FPC CONT
28		41B11566Y10	SPRING SHAFT
29		03S70494F13	SCR,P-TITE M2X6 BLK
32		07A11565Y02	PLATE,CLAMP
33		03S94385F01	SCR,NYLOK M1.7X2.3
34		43A41812Y02	TABLE,CLAMPER2
37		45A11599Y02	LEVER,ACTUATOR
38		41B11613Y03	SPRING,PULL
39		41B11613Y05	SPRING,LEV-ACT
40		41A11609Y01	SPRING,LEVER
41		41B40574Y10	SPRING,PLATE-S
42		41B11613Y15	SPRING,PULL
43		41A11040Y10	SPRING,SLED-HOE
44		03S70494F52	SCR,P-TITE M1.4X4.5
45		43A21240Y01	SHEET,FPC PICK
47		45B40510Y02	SLIDER,LOAD
48		44B40527Y02	RACK
49		45A11601Y02	LEVER,TRIGER
50		44B11581Y02	GEAR,(D)
51		45B11594Y02	SLIDER,LOCK(L)
52		45A11592Y02	ARM,LOCK(L2)
53		03A11574Y01	SCREW,LOCK
54		45B11591Y02	ARM,LOCK(L1)
55		07A50606Y01	BKT,MOTOR WIRE-P
56		45B11593Y02	SLIDER,LOCK(R)
57		45B11607Y02	ARM,LOCK(R)
58		45A11597Y02	LEVER,SW
59		41B11613Y04	SPRING,TRIGER
60		75C30466Y04	DAMPER,DPS2
61		41B11613Y06	SPRING,PULL
62		41B11613Y07	SPRING,PULL
63		41B11613Y08	SPRING,PULL
64		41A40518Y01	SPRING,ROL
65		41A31894Y01	SPRING,SLIDER
67		03A21791Y01	SCREW,M2X3.5 S-TITE
68		07B20905Y02	BKT,FPC CONT
69		30T15126W15	WIRE,PC JOINT 7P
72		41A21613Y02	SPRING,SPINDLE
74		14A21117Y02	INS,CVR
75		43A31443Y01	ROLLER,ARM DISC (C)
77		75C30466Y05	DAMPER,DPS2
78		41B11613Y14	SPLING,PULL
79		04B41345P52	WASH,1.6X3.5X0.25
81		75A21286Y02	CUSHION,CLAMPER BACK
82		44B40523Y02	GEAR,BASE
83		04A40528Y01	WASHER,FELT
84		44A40524Y02	GEAR,CLUTCH
85		41A40529Y01	SPRING,CLUTCH
86		44A40525Y02	GEAR,PINION
87		15A40526Y02	HOLDER,CLUTCH
88		43A41446Y02	SLEEVE,CLUTCH
89		04B41345P25	WASH,L. 3.1X6X0.35
90		03S44205G99	SCR,T-TITE M2X3